



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 115800

TO: Diana Johannsen

Location:

Art Unit: 1634

March 3, 2004

Case Serial Number: 692077

JCMO
JCS

From: P. Sheppard

Location: Remsen Building

Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

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Sheppard, Paula

From: Johannsen, Diana
Sent: Wednesday, February 25, 2004 11:53 AM
To: Sheppard, Paula
Subject: RE: 09/692,077

Hi Paula:

The search results I received in this case did not include this portion of the search:

nucleotides 880-930 of SEQ ID NO: 1
nucleotides 880-930 of SEQ ID NO: 2

I really need this part of the search since the applicant's polymorphism is located in this region. Could you check to see if this portion of the search was simply not printed or not delivered?

Thanks - I appreciate your help.

Diana

-----Original Message-----

From: Sheppard, Paula
Sent: Tuesday, February 17, 2004 2:18 PM
To: Johannsen, Diana
Subject: RE: 09/692,077

Completed today.

-----Original Message-----

From: Johannsen, Diana
Sent: Tuesday, February 17, 2004 10:02 AM
To: Sheppard, Paula
Subject: FW: 09/692,077

Hello Paula -

Could you respond to this if possible? Any info would be appreciated (just trying to determine whether I can work on this one this biweek).

Thanks a lot.

-----Original Message-----

From: STIC-Biotech/ChemLib
Sent: Tuesday, February 17, 2004 10:01 AM
To: Johannsen, Diana
Subject: RE: 09/692,077

Check with Paula Sheppard.

-----Original Message-----

From: Johannsen, Diana
Sent: Tuesday, February 17, 2004 9:54 AM
To: STIC-Biotech/ChemLib
Subject: FW: 09/692,077

If possible, could you give me an estimate re: when this search might be complete?

Thank you very much, Diana

-----Original Message-----

From: Johannsen, Diana
Sent: Friday, February 06, 2004 12:04 PM
To: STIC-Biotech/ChemLib
Subject: 09/692,077

Please search the following:

01/06
2/27/04

Sheppard
3/3/04

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 04:47:22 ; Search time 864.5 Seconds

(without alignments)
2556.963 Million cell updates/sec

Title: US-09-692-077d-1_copy_880_930

Perfect score: 1 gagagatcagctcgaagagga.....aggaaggaaggaagatgtc 51

Sequence: 1 gagagatcagctcgaagagga.....aggaaggaaggaagatgtc 51

Scoring table: IDENTITY NUC
Gapop 10_0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues
Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- 1: gb_ba:*
- 2: gb_hcg:*
- 3: gb_in:*
- 4: gb_om:*
- 5: gb_ov:*
- 6: gb_pac:*
- 7: gb_ph:*
- 8: gb_pl:*
- 9: gb_pr:*
- 10: gb_ro:*
- 11: gb_sbs:*
- 12: gb_ay:*
- 13: gb_un:*
- 14: gb_vl:*
- 15: em_da:*
- 16: em_fun:*
- 17: em_hum:*
- 18: em_in:*
- 19: em_mu:*
- 20: em_om:*
- 21: em_or:*
- 22: em_ov:*
- 23: em_pac:*
- 24: em_ph:*
- 25: em_pl:*
- 26: em_ro:*
- 27: em_sbs:*
- 28: em_un:*
- 29: em_vl:*
- 30: em_hcg_hum:*
- 31: em_hcg_inv:*
- 32: em_hcg_other:*
- 33: em_hcg_mus:*
- 34: em_hcg_pln:*
- 35: em_hcg_rod:*
- 36: em_hcg_mam:*
- 37: em_hcg_vrt:*
- 38: em_ay:*
- 39: em_hcg_hum:*
- 40: em_hcg_mus:*
- 41: em_hcg_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	51	100.0	885	9	HUMA2C2	M38742 Human alpha
2	51	100.0	1030	6	HSAS325747	AJ25747 Homo sapi
3	51	100.0	1353	6	AX350489	AX350489 Sequence
4	51	100.0	2072	6	AR270618	AR270618 Sequence
5	51	100.0	2072	6	HUMADRA2BA	M34041 Human alpha
6	51	100.0	3274	6	AX548756	AX548756 Sequence
7	51	100.0	9944	9	AF005900	AF005900 Homo sapi
8	43.6	85.5	133405	10	AL662790	AL662790 Mouse DNA
9	43.6	85.5	216444	2	AC069060	AC069060 Mus muscu
10	43.4	85.1	1185	10	ASPA27259	AJ427259 Anomaluru
11	43.2	84.7	1183	4	OCAR2B	Y15946 Oryctolagus
12	43.2	84.7	1183	4	OCY16189	Y16189 Oryctolagus
13	43.2	84.7	206933	2	AC108794	AC108794 Mus muscu
14	43.2	84.7	215065	2	AC103291	AC103291 Rattus no
15	43.2	84.7	222507	2	AC112440	AC112440 Rattus no
16	43.2	84.7	226214	2	AC126653	AC126653 Rattus no
17	43.2	84.7	287497	2	AC106946	AC106946 Rattus no
18	43.2	84.7	293183	2	AC095903	AC095903 Rattus no
19	43	84.3	1191	10	CCA427260	AJ427260 Caenor ca
20	42.6	83.5	217323	2	AC115724	AC115724 Mus muscu
21	42.6	83.5	232202	2	AC115740	AC115740 Mus muscu
22	42.2	82.7	31533	10	BX465209	BX465209 Mouse DNA
23	42.2	82.7	186272	10	AL672046	AL672046 Mouse DNA
24	42.2	82.7	189624	2	AC128836	AC128836 Rattus no
25	42.2	82.7	189886	2	AC128202	AC128202 Rattus no
26	42.2	82.7	230127	10	AL691481	AL691481 Mouse DNA
27	42.2	82.7	230227	2	AC112634	AC112634 Rattus no
28	42.2	82.7	230313	2	AC120625	AC120625 Rattus no
29	42.2	82.7	268151	2	AC111391	AC111391 Rattus no
30	42	82.4	1198	4	ECAR2B	Y15945 Equus cabal
31	42	82.4	185321	2	AC110324	AC110324 Rattus no
32	42	82.4	186607	2	AC140777	AC140777 Mus muscu
33	42	82.4	221135	2	AC097027	AC097027 Rattus no
34	42	82.4	225928	2	AC128094	AC128094 Rattus no
35	42	82.4	237322	2	AC123153	AC123153 Rattus no
36	42	82.4	275192	2	AC119508	AC119508 Rattus no
37	41.6	81.6	309	10	MUSTCE	M17284 Mouse trans
38	41.6	81.6	1197	4	MTE505820	AJ505820 Manis tet
39	41.6	81.6	30837	2	AC126874_4	Continuaction (5 of
40	41.6	81.6	42003	2	AC145716	AC145716 Homo sapi
41	41.6	81.6	42920	2	AC145702	AC145702 Homo sapi
42	41.6	81.6	49999	6	AX015902	AX015902 Sequence
43	41.6	81.6	49999	6	AX015908	AX015908 Sequence
44	41.6	81.6	68233	6	AX695956	AX695956 Sequence
45	41.6	81.6	78449	2	AC141965	AC141965 Rattus no

ALIGNMENTS

RESULT 1
LOCUS HUMA2C2 885 bp DNA linear PRI 06-MAR-1995
DEFINITION Human alpha-2 adrenergic receptor (ADRA2C) gene, partial cde.
ACCESSION M38742
VERSION M38742.1 GI:177867
KEYWORDS alpha-2 adrenergic receptor.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 885)
AUTHORS Chang,A.C., Ho,T.F. and Chang,N.C.
TITLE In vitro amplification by polymerase chain reaction of a partial
gene encoding the third subtype of alpha-2 adrenergic receptor in

Pred. No. is the number of results predicted by chance to have a

Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
1292 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 1342

RESULT 5
LOCUS HUMADRA2RA 2072 bp DNA linear PRI 30-OCT-1994
DEFINITION Human alpha-2-adrenergic receptor (alpha-2 c2) gene, complete cds.
ACCESSION M34041
VERSION M34041.1 GI:178197
KEYWORDS alpha-2-adrenergic receptor; plasma membrane protein;
receptor-coupled G protein.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 2072)
Lomanev, J.W., Lorenz, W., Allen, L.F., King, K., Regan, J.W.,
Yang-Peng, T.L., Caron, M.G. and Leckwitz, R.J.
Expansion of the alpha-2-adrenergic receptor family: cloning and
characterization of a human alpha-2-adrenergic receptor subtype,
the gene for which is located on chromosome 2
Proc. Natl. Acad. Sci. U.S.A. 87 (13), 5094-5098 (1990)
90311349

JOURNAL
MEDLINE
PUBMED
COMMENT Original source text: Human placenta DNA, clone alpha-2 C2.
Draft entry and computer-readable sequence for [1] kindly submitted
by J.W. Lomanev, 03-MAY-1990, for release after publication.

FEATURES
source
1..2072
Location/Qualifiers
/organism="Homo sapiens"
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/map="2"
413..1765
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413..1765
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name 'ADRA2RL1'"
/codon_start=1
/protein_id="AAAS1666.1"
/db_xref="GI:178198"
/translation="WDHDDPYVQATTAIAATFLILFTIRGNALVILAVTSRLR
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LCAISLDRAWAVSRALVNSKTPRIKICITLWLIAVLSLPLIKGDGQPRG
RPOCLNDBAWYIASSIGSPAPCLMLVLRVYLAKRNRGPRAGKGGPGES
KOPRDHGGAGLASALPALASVAREVNGHSGKEGEPEDTGRALAPPMAA
LNSGGGKGEGVAGSPEDAESEEESEEESEECBPVAPVAPACSPLOQGSR
VLATRCGULLRGVCAIGCGWRRRAVTRKRTFVLAVVIGFVLCMPFFRSYS
LCATCPKCKVPHGLPFFFWIGTCNSSLNPIYITTFNDFRRARILCRPTGTAM
"

ORIGIN
Chromosome 2.
Query Match 100.0%; Score 51; DB 9; Length 2072;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
1292 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 1342

RESULT 6
AX548756 3274 bp DNA linear PAT 26-NOV-2002
LOCUS AX548756
DEFINITION Sequence 41 from Patent WO02061087.
ACCESSION AX548756

VERSION AX548756.1 GI:25813686
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1
Burner, G.C., Roush, C.L. and Brown, J.P.
Antigenic peptides, such as for G protein-coupled receptors
(GPCRs), antibodies thereto, and systems for identifying such
antigenic peptides
Patent: WO 02061087-A 41 08-AUG-2002;
Lifespan BioSciences, Inc. (US)
FEATURES
source
1..3274
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 51; DB 6; Length 3274;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
880 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 930

RESULT 7
AF005900 9944 bp DNA linear PRI 05-AUG-2003
LOCUS AF005900
DEFINITION Homo sapiens alpha2B-adrenergic receptor (alpha2C2AR) gene,
complete cds.
ACCESSION AF005900
VERSION AF005900.2 GI:33439705
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 9944)
Cayla, C., Heimonen, P., Viikari, L., Schaak, S., Snajdr, A.,
Bouloumie, A., Karvonen, M., Pesonen, U., Scheinin, M. and Paris, H.
Alpha2C2-adrenergic receptor gene
Unpublished
2 (bases 1 to 9944)
Direct Submission
Submitted (29-MAY-1997) INSDERM Unit 317, Institut Louis Bugnard,
CHU Rangueil, Toulouse 31403, France
3 (bases 1 to 9944)
Cayla, C., Heimonen, P., Viikari, L., Schaak, S., Snajdr, A.,
Bouloumie, A., Karvonen, M., Pesonen, U., Scheinin, M. and Paris, H.
Direct Submission
Submitted (05-AUG-2003) INSDERM Unit 317, Institut Louis Bugnard,
CHU Rangueil, Toulouse 31403, France
REMARK
COMMENT Sequence update by submitter
On Aug 5, 2003 this sequence version replaced gi:2245627.
FEATURES
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/chromosome="2"
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5500..6852
/gene="alpha2C2AR"
/note="alpha2C2 adrenergic receptor gene"
5500..6852
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/note="adrenergic receptor"
/codon_start=1

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 /db_xref="GI:2245628"
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 RPOCKLNOEAWYILASISGSPAPCLITVLAIVLAKSNRGRPRAGGOGES
 KOPRPHGGALASATLIPALASVARSRENGSKSGTGEETPEDTGTALPSSMA
 LPNSGGGKEGVCSAEDAESEEESECEPOAVPSPASACSPLOPOGSR
 VIATIRGQVTLIRGVGALGGQWRRRLQTEKPTFLVAVIGVPLICMPFFESYS
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 " polya_signal
 8751..8756

Query Match 100.0%; Score 51; DB 9; Length 9944;
 Best Local Similarity 100.0%; Pred. No. 0.0015;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 6379 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 6429

RESULT 8
 AL662790 133405 bp DNA linear ROD 26-JUL-2002
 LOCUS Mouse DNA sequence from clone RP23-53E2 on chromosome 11, complete
 ACCESSION AL662790.21 GI:22002673
 VERSION HTG.
 KEYWORDS Mus musculus (house mouse)
 SOURCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 ORGANISM Smith M.
 Direct Submission
 Submitted (26-JUL-2002) Wellcome Trust Sanger Institute, Hinxton,
 Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
 humquerry@sanger.ac.uk Clone requesters: clonerequest@sanger.ac.uk
 On Jul 29, 2002 this sequence version replaced gi:21955513.
 ----- Genome Center
 Center: Wellcome Trust Sanger Institute
 Web site: http://www.sanger.ac.uk
 Contact: humquerry@sanger.ac.uk

REFERENCE
 AUTHORS
 TITLE
 JOURNAL

COMMENT

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above. This sequence was finished as follows unless otherwise noted: all chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Emi, EMBL; Swi, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at
 http://www.sanger.ac.uk/Projects/C_elegans/wormpep
 from the RPI-23 Mouse PAC Library
 constructed by the group of Peter de Jong.
 For further details see http://www.chori.org/bacpac/home.htm
 VECTOR: pBAC3.6.
 Location/Qualifiers:
 1..133405

FEATURES
 source

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 /chromosome="11"
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Query Match 85.5%; Score 43.6; DB 10; Length 133405;
 Best Local Similarity 92.0%; Pred. No. 0.091;
 Matches 46; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Db 9337 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 50
 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 9386

RESULT 9
 AC069060 216444 bp DNA linear HTG 18-MAR-2003
 LOCUS Mus musculus chromosome 11 clone RP23-53E2 map 11, WORKING DRAFT
 ACCESSION AC069060
 VERSION AC069060.4 GI:29029385
 KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
 SOURCE Mus musculus (house mouse)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 ORGANISM Birren B., Linton L., Nusbaum C., Lander E., Abram H., Allen N.,
 1 (bases 1 to 216444)
 2 (bases 1 to 216444)
 Unpublished
 Mus musculus chromosome 11, clone RP23-53E2
 2 (bases 1 to 216444)
 Birren B., Linton L., Nusbaum C., Lander E., Abram H., Allen N.,
 Anderson S., Baldwin J., Barna N., Bastien V., Bede F.,
 Boguslavsky L., Boukhgalter B., Brown A., Burnett G.,
 Campionano A., Castle A., Choquet J., Colangelo M., Collins S.,
 Collymore A., Cooke P., DeRellano K., Dewar K., Diaz J.S.,
 Dodge S., Domino M., Doyle M., Ferreira P., Fitzhugh W., Gage D.,
 Galagan J., Gardyna S., Glend S., Goyette M., Graham L.,
 Grand-Pierre N., Grant G., Hago B., Haefford A., Horton L.,
 Howland J.C., Iliev I., Johnson R., Jones C., Kann L., Karatas A.,
 Klein J., Labèque K., Lamazares R., Landers T., Lebecky J.,
 Levine R., Lieu C., Liu G., Locke K., MacDonald P., Markys N.,
 McCarty M., McEwan P., McGurk A., McKernan K., McPherson R.,
 Melard J., Meneus L., Mihova T., Miranda C., Mieng V., Morrow J.,
 Murphy T., Naylor J., Norman C.H., O'Connor T., O'Donnell P.,
 O'Neill D., Olivier T.M., Oliver J., Peterson K., Pierre N.,
 Pisanic C., Pollara V., Raymond C., Riley R., Rogov P., Rothman D.,
 Roy A., Santos R., Schauer S., Severy P., Spencer B.,
 Stange-Thomann N., Stojanovic N., Subramanian A., Talmac J.,
 Tesfaye S., Theodore J., Titrrell A., Travers M., Triggillo J.,
 Vassiliev H., Viel R., Vo A., Wilson B., Wu X., Wyman D., Ye W.J.,
 Young G., Zainoun J., Zimmer A. and Zody M.
 Direct Submission
 Submitted (17-MAY-2000) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 3 (bases 1 to 216444)
 Birren B., Nusbaum C., Lander E., Abouelell, A., Allen N.,
 Anderson S., Arachchi, H.M., Barna N., Bastien V., Bloom T.,
 Boguslavsky L., Boukhgalter B., Camarata J., Chang J., Choquet J.,
 Collymore A., Cooke A., Cooke P., Cornu B., DeRellano K.,
 Diaz J.S., Dodge S., Dooley K., Dorris L., Erickson J., Faro S.,
 Ferreira P., Fitzgerald M., Gage D., Galagan J., Gardyna S.,
 Graham L., Grand-Pierre N., Hago B., Haefford A., Horton L.,
 Hall J., Horton L., Hume M., Kells C., Lander E., Levine R.,
 Kamat A., Karatas A., Kells C., Lander E., Levine R.,
 Lindblad-Toh K., Liu G., Lui A., Mabbitt R., Jones C.,
 MacDonald P., Major J., Manning J., Matthews C., McCarthy M.,
 Melard J., Meneus L., Mihova T., Mieng V., Murphy T., Naylor J.,
 Nguyen C., Nicol R., Nordu C., O'Connor T., O'Donnell P.,
 O'Neill D., Oliver J., Peterson K., Phunkhang P., Pierre N.,

TITLE
 JOURNAL
 REFERENCE
 AUTHORS

	indels	Gaps
1 GAGGATGAAGCTGAAGAGGAGGAGAAGCATTCCACCA	0;	0,

RESULT 11

DEFINITION

Accession	U51594	U51595	U51596	U51597	U51598	U51599	U51600	U51601	U51602	U51603	U51604	U51605	U51606	U51607	U51608	U51609	U51610	U51611	U51612	U51613	U51614	U51615	U51616	U51617	U51618	U51619	U51620	U51621	U51622	U51623	U51624	U51625	U51626	U51627	U51628	U51629	U51630	U51631	U51632	U51633	U51634	U51635	U51636	U51637	U51638	U51639	U51640	U51641	U51642	U51643	U51644	U51645	U51646	U51647	U51648	U51649	U51650	U51651	U51652	U51653	U51654	U51655	U51656	U51657	U51658	U51659	U51660	U51661	U51662	U51663	U51664	U51665	U51666	U51667	U51668	U51669	U51670	U51671	U51672	U51673	U51674	U51675	U51676	U51677	U51678	U51679	U51680	U51681	U51682	U51683	U51684	U51685	U51686	U51687	U51688	U51689	U51690	U51691	U51692	U51693	U51694	U51695	U51696	U51697	U51698	U51699	U51700	U51701	U51702	U51703	U51704	U51705	U51706	U51707	U51708	U51709	U51710	U51711	U51712	U51713	U51714	U51715	U51716	U51717	U51718	U51719	U51720	U51721	U51722	U51723	U51724	U51725	U51726	U51727	U51728	U51729	U51730	U51731	U51732	U51733	U51734	U51735	U51736	U51737	U51738	U51739	U51740	U51741	U51742	U51743	U51744	U51745	U51746	U51747	U51748	U51749	U51750	U51751	U51752	U51753	U51754	U51755	U51756	U51757	U51758	U51759	U51760	U51761	U51762	U51763	U51764	U51765	U51766	U51767	U51768	U51769	U51770	U51771	U51772	U51773	U51774	U51775	U51776	U51777	U51778	U51779	U51780	U51781	U51782	U51783	U51784	U51785	U51786	U51787	U51788	U51789	U51790	U51791	U51792	U51793	U51794	U51795	U51796	U51797	U51798	U51799	U51800	U51801	U51802	U51803	U51804	U51805	U51806	U51807	U51808	U51809	U51810	U51811	U51812	U51813	U51814	U51815	U51816	U51817	U51818	U51819	U51820	U51821	U51822	U51823	U51824	U51825	U51826	U51827	U51828	U51829	U51830	U51831	U51832	U51833	U51834	U51835	U51836	U51837	U51838	U51839	U51840	U51841	U51842	U51843	U51844	U51845	U51846	U51847	U51848	U51849	U51850	U51851	U51852	U51853	U51854	U51855	U51856	U51857	U51858	U51859	U51860	U51861	U51862	U51863	U51864	U51865	U51866	U51867	U51868	U51869	U51870	U51871	U51872	U51873	U51874	U51875	U51876	U51877	U51878	U51879	U51880	U51881	U51882	U51883	U51884	U51885	U51886	U51887	U51888	U51889	U51890	U51891	U51892	U51893	U51894	U51895	U51896	U51897	U51898	U51899	U51900	U51901	U51902	U51903	U51904	U51905	U51906	U51907	U51908	U51909	U51910	U51911	U51912	U51913	U51914	U51915	U51916	U51917	U51918	U51919	U51920	U51921	U51922	U51923	U51924	U51925	U51926	U51927	U51928	U51929	U51930	U51931	U51932	U51933
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KEYWORDS
SOURCE
ORGANISM
alpha adrenenergic receptor; subtype 2B.
Oryctolagus cuniculus (rabbit)
Oryctolagus cuniculus

REFERENCE

AUTHORS	TITLE
Stanhope, M.J., Madsen, O., Waddell, V.G., Cleven, G.C., de Jong, W W and Springer, M.S.	Highly v. common.

Journal of Molecular Evolution 59: 1-11 (2004)
DOI 10.1007/s00238-004-0001-1
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Printed in the USA

AUTHORS
TITLE
JOURNAL

Madsen, O.
Direct Submission
Submitted (16-DEC)

REMARK
REFERENCE
AUTHORS
TITLE
JOURNAL

DEPARTMENT of Biochemistry, U. Madsen, University of Nijmegen,
NETHERLANDS PO Box 9101, NL-6500 HB Nijmegen.
Revised by [3]
3 (bases 1 to 1483)
Madsen, O.
Direct Submission
Submitted (15-NOV-1990)

Department of Biochemistry, University of Nijmegen,
Netherlands, PO Box 9101, NL-6500 HB Nijmegen
On Nov 17, 1999 this sequence version replaced gi:3268559.
1. location/qualifiers
1. 1987

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SGSLSEPEAEAEAEAEEDPEPAIVPVPASVUSPTLQPPQSRVLATLRQVTVRNG
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Conservative	93.8%	Pred. No.	0.15				

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845 GAGGAACAAGCTGTAAAGACGAGCAGAGCAAGAACGAGAGCAAGAGCAAGCAAGCAG 892

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RESULT 12

LOCUS	OCY16189	1183
DEFINITION		

ACCESSION	U05693	U05694	U05695	U05696	U05697	U05698	U05699	U05700	U05701	U05702	U05703	U05704	U05705	U05706	U05707	U05708	U05709	U05710	U05711	U05712	U05713	U05714	U05715	U05716	U05717	U05718	U05719	U05720	U05721	U05722	U05723	U05724	U05725	U05726	U05727	U05728	U05729	U05730	U05731	U05732	U05733	U05734	U05735	U05736	U05737	U05738	U05739	U05740	U05741	U05742	U05743	U05744	U05745	U05746	U05747	U05748	U05749	U05750	U05751	U05752	U05753	U05754	U05755	U05756	U05757	U05758	U05759	U05760	U05761	U05762	U05763	U05764	U05765	U05766	U05767	U05768	U05769	U05770	U05771	U05772	U05773	U05774	U05775	U05776	U05777	U05778	U05779	U05780	U05781	U05782	U05783	U05784	U05785	U05786	U05787	U05788	U05789	U05790	U05791	U05792	U05793	U05794	U05795	U05796	U05797	U05798	U05799	U05800	U05801	U05802	U05803	U05804	U05805	U05806	U05807	U05808	U05809	U05810	U05811	U05812	U05813	U05814	U05815	U05816	U05817	U05818	U05819	U05820	U05821	U05822	U05823	U05824	U05825	U05826	U05827	U05828	U05829	U05830	U05831	U05832	U05833	U05834	U05835	U05836	U05837	U05838	U05839	U05840	U05841	U05842	U05843	U05844	U05845	U05846	U05847	U05848	U05849	U05850	U05851	U05852	U05853	U05854	U05855	U05856	U05857	U05858	U05859	U05860	U05861	U05862	U05863	U05864	U05865	U05866	U05867	U05868	U05869	U05870	U05871	U05872	U05873	U05874	U05875	U05876	U05877	U05878	U05879	U05880	U05881	U05882	U05883	U05884	U05885	U05886	U05887	U05888	U05889	U05890	U05891	U05892	U05893	U05894	U05895	U05896	U05897	U05898	U05899	U05900	U05901	U05902	U05903	U05904	U05905	U05906	U05907	U05908	U05909	U05910	U05911	U05912	U05913	U05914	U05915	U05916	U05917	U05918	U05919	U05920	U05921	U05922	U05923	U05924	U05925	U05926	U05927	U05928	U05929	U05930	U05931	U05932	U05933	U05934	U05935	U05936	U05937	U05938	U05939	U05940	U05941	U05942	U05943	U05944	U05945	U05946	U05947	U05948	U05949	U05950	U05951	U05952	U05953	U05954	U05955	U05956	U05957	U05958	U05959	U05960	U05961	U05962	U05963	U05964	U05965	U05966	U05967	U05968	U05969	U05970	U05971	U05972	U05973	U05974	U05975	U05976	U05977	U05978	U05979	U05980	U05981	U05982	U05983	U05984	U05985	U05986	U05987	U05988	U05989	U05990	U05991	U05992	U05993	U05994	U05995	U05996	U05997	U05998	U05999	U06000	U06001	U06002	U06003	U06004	U06005	U06006	U06007	U06008	U06009	U06010	U06011	U06012	U06013	U06014	U06015	U06016	U06017	U06018	U06019	U06020	U06021	U06022	U06023	U06024	U06025	U06026	U06027	U06028	U06029	U06030	U06031	U06032
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ORGANISMS

1. Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Lagomorpha; Leporidae.

TITLE	AUTHORS
Highly congruent molecular support for a diverse origin of epidemic African malaria	Scamopo, M.J., Madsen, O.J., Waddell, V.G., Cleven, G.C., de Jong, W.W. and Springer, M.S.

AUTHORS

Direct Submission
Submitted (12-JAN-1998) O.O.M. Madson
Department

FEATURES
Source location/Qualifiers
Department of Biochemistry, PO Box 9101, NL-6500 HB Nijmegen
NETHERLANDS

1
2
3
4
5

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CDS
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	Best Local Similarity	93.8%;	Pred. No. 0.15;	Mismatches 45;	Conservative 0; Indels 3; Gaps 0;
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ACI08794					
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DNA linear					
HTG 22-OCT-2002					

AC108794.4 GI:24211386
HTG; HTGS_PHASE2; HTGS_DRAFT; HTGS_FULLTOP
Mus musculus (house mouse)

Mus musculus (house mouse)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
Birren, B., Nussbaum, C. and Lander, E.
Mus musculus (house mouse)

unordered pieces.

ACCESSION
AC103291 5 GI:24819202

VERSION
HTG, HTGS_PHASE1, HTGS_DRAFT, HTGS_FULLTOP

KEYWORDS
Rattus norvegicus (Norway rat)

SOURCE
Rattus norvegicus

ORGANISM
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus

REFERENCE
1 (bases 1 to 215065)

AUTHORS
Muzny, D. Marie, Metzker, M. Lee, Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D., Anyalibechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Bismuth, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryan, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Ceaar, H., Center, A., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Delgado, O., Denison, S., Deramo, C., Ding, Y., Dinh, H., Dederich, D., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C.A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Gebregeorgis, E., Geer, K., Gill, R., Garcia, A., Garner, T., Garza, M., Gharay, Y., Havlak, P., Hawes, A., Hamilton, C., Hamilton, K., Hernandez, R., Hines, S., Hladun, S.L., Hodgson, A., Hognes, J., Hollins, B., Howell, S., Huylk, S., Hume, J., Idlebird, D., Jackson, K., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jollivet, A., Kowals, C., Kraft, C.L., Lebow, H., Levan, J., King, L., Kovac, C., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorensuwa, L., Loulgesed, H., Lozano, R.J., Lu, X., Ma, J., Maheshwari, M., Mahindaratne, M., Mahmoud, M., Malloy, K., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhney, S., McLeod, M.P., McNeill, T. Z., Meenen, E., Milosavljevic, A., Miner, G., Mijic, E., Montemayor, J., Morgan, M., Morris, K., Morris, S., Mundasa, M., Murphy, J., Moore, S., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Norriss, L., Nwackemele, O., Okwom, G., Olarnpunsagoon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pankoch, C., Puro, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Sanders, W., Savery, G., Scherer, S., Scott, G., Shatman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C.D., Smajls, D., Sneed, A., Sodergren, E., Song, X.-Z., Sorrelle, R., Sosa, J., Steime, M., Strong, R., Sutton, A., Svatek, A., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmali, K., Wang, O., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Williams, G., Willson, R., Wleczek, R., Wooden, H., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Zhou, D., von Weinsteck, G., and Gibbs, R.A.

TITLE
Unpublished

JOURNAL
2 (bases 1 to 215065)

AUTHORS
Worley, K.C.

JOURNAL
Direct Submission

REFERENCE
Submitted (24-NOV-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

AUTHORS
Rat Genome Sequencing Consortium.

JOURNAL
Submitted (09-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

COMMENT

On Nov 9, 2002 this sequence version replaced GI:23269227. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both ends and sequences and whole genome table.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GUSU

Center clone name: CH230-13104

----- Summary Statistics

Assembly program: Phrap; version 0.990329

Consensus quality: 200859 bases at least Q40

Consensus quality: 202934 bases at least Q30

Estimated insert size: 207073; sum-of-contigs estimation

Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

----- NOTE: Estimated insert size may differ from sequence length

* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html)

* NOTE: This is a 'working draft' sequence. It currently

* consists of 2 contigs. The true order of the pieces

* is not known and their order in this sequence record is

* arbitrary. Gaps between the contigs are represented as

* runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

* as soon as it is available and the accession number will

* be preserved.

* 1 211244: contig of 211244 bp in length

* 211245 211344: gap of unknown length

* 211345 215065: contig of 3721 bp in length.

Location/Qualifiers

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/mol_type="genomic DNA"

/db_xref="taxon:10116"

/clone="CH230-13104"

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/note="clone boundary

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site: EcorI

end sequence: BH316900"

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/note="clone boundary

clone end: Sp6

site: EcorI

end sequence: BH316902"

203592. 205041

/note="wgs end extension

clone end: Sp6"

209692. 211244

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211345. 212647

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213358. 215065

/note="wgs end extension

clone end: Sp6"

FEATURES

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misc_feature

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[illegible]

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TITLE
Meinert, G. and Gibbs, R.A.
JOURNAL
Unpublished
REFERENCE
2 (bases 1 to 222507)
AUTHORS
Morley, K.C.
JOURNAL
Direct Submission
TITLE
Submitted (21-FEB-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
REFERENCE
3 (bases 1 to 222507)
AUTHORS
Rat Genome Sequencing Consortium.
JOURNAL
Direct Submission
TITLE
Submitted (15-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
COMMENT
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are oriented and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GRYP
Center clone name: CH230-144K15

----- Summary Statistics
Assembly program: Phrap, version 0.990329
Consensus quality: 206932 bases at least Q40
Consensus quality: 208648 bases at least Q30
Consensus quality: 209801 bases at least Q20
Estimated insert size: 210499; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

-----
* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbankdraft_data.html) .
* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
* 1 53077: contig of 53077 bp in length
* 53078 53177: gap of unknown length
* 53178 57398: contig of 4221 bp in length
* 57399 57498: gap of unknown length
* 57499 164797: contig of 107299 bp in length
* 164798 164897: gap of unknown length
* 164898 222507: contig of 57610 bp in length.
*
* Location/Qualifiers
* 1..222507
* /organism="Rattus norvegicus"
* /mol_type="genomic DNA"
* /db_xref="taxon:10116"
* /clone="CH230-144K15"
* 1..1032
* /note="wgs contig"
* 57499..58533
* /note="wgs contig"
* 62821..64890
* /note="wgs contig"

```

Tue Mar 2 17:00:52 2004

us-09-692-077d-1_copy_880_930.rge

```
misc_feature      109071..110316
                    /note="wgs_contig"
ORIGIN
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Query Match	84.7%	Score 43.2;	DB 2;	Length 222507;
Best Local Similarity	93.8%;	Pred. No.	0.11;	
Matches	45;	Conservative	0;	Mismatches 3; Indels 0; Gaps 0;
CY	1	GAGGATGAACCTGGAGAGGAAAGAAGGAGGAGGAGAGAG	48	
Dd	153574	GAGGAGAAAGAGAAAGAGAGAGAGAGAGAGAGAGAGAG	153621	

Search completed: March 2, 2004, 06:08:05
Job time : 866.5 secs

DR WPI: 2002-667063/71.
DR P-PSDB; AAE26634.
XX
PT Detecting a risk of hypertension and targeting treatment in a subject by
PT determining the pattern of alleles encoding a variant alpha-2-
XX adrenoceptor.
XX
PS Disclosure; Page 27-29; 35pp; English.
XX
CC The invention relates to a method for detecting a risk of hypertension by
CC determining the pattern of alleles encoding a variant alpha-2B-
CC adrenoceptor (AR) protein. The methods and compositions of the invention
CC are useful for detecting risks and targeting treatment for hypertension.
CC The kit is also useful for selecting for clinical drug trials testing the
CC antihypertensive effect of compounds. The present sequence is human alpha
CC -2B-adrenoceptor gene
XX
SQ Sequence 1353 BP; 223 A; 459 C; 405 G; 266 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 6; Length 1353;
Best Local Similarity 100.0%; Pred. No. 0.00055;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
DB 880 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 930

RESULT 4
ID AAQ14151 standard; DNA; 2064 BP.
XX
AC AAQ14151;
XX
DT 06-JAN-1992 (first entry)
XX
DE Human alpha 2 beta adrenergic receptor gene.
XX
KM Neurotransmission; adrenaline; epinephrine; NGC-alpha2beta; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 288..1752
FT /*tag= a
XX
XX US5053337-A.
XX
XX 01-OCT-1991.
XX
XX 30-OCT-1989; 89US-00428856.
XX
XX 30-OCT-1989; 89US-00428856.
XX
XX (NEUR-) NEUROGENETIC CORP.
XX
XX Weinshank RL, Hartig PR;
XX
XX WPI; 1991-310087/42.
XX
XX P-PSDB; AAR14149.
XX
XX Isolated DNA encoding human adrenergic receptor - for detecting nucleic
XX acids encoding alpha, 2-beta adrenergic receptor, for screening drugs.
XX
XX Claim 1; Fig 2; 15pp; English.
XX
XX Clone NGC-alpha2beta was isolated from a human spleen genomic library by
XX screening with a fragment of the human 5-HT1A receptor gene. The gene can
XX be used to express recombinant receptor protein which can be used to
XX produce antibodies for inhibition of receptor function
XX
SQ Sequence 2064 BP; 319 A; 696 C; 659 G; 390 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 2; Length 2064;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
DB 1278 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 1328

RESULT 5
ID AAT59499 standard; DNA; 2064 BP.
XX
XX AAT59499;
XX
AC AAT59499;
XX
DT 25-MAR-2003 (revised)
DT 06-MAY-1997 (first entry)
XX
XX Human alpha-2B adrenergic receptor genomic DNA clone.
XX
XX Alpha-2B adrenergic receptor; adrenoceptor; adrenaline; epinephrine;
XX signal transduction; neurotransmitter; ligand; ss.
XX
XX Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 288..1751
FT /*tag= a
XX
XX US5595880-A.
XX
XX 21-JAN-1997.
XX
XX 22-OCT-1992; 92US-00965040.
XX
XX 30-OCT-1989; 89US-00428856.
XX
XX 30-MAY-1991; 91US-00707604.
XX
XX (SYNA-) SYNAPTIC PHARM CORP.
XX
XX Hartig PR, Weinshank RL;
XX
XX WPI; 1997-107576/10.
XX
XX P-PSDB; AAM11804.
XX
XX Assay for alpha-2B adrenergic receptor ligands - using membranes of cells
XX expressing recombinant receptor.
XX
XX Disclosure; Fig 2A-E; 16pp; English.
XX
XX A genomic DNA clone (AAT59499) codes for human alpha-2B adrenergic
XX receptor (AAM11804), a member of the rhodopsin-like signal transducer
XX family. It was isolated from a human spleen genomic library in the lambda
XX vector Charon 28 by screening with a 1.6 kb fragment of the human 5-
XX hydroxytryptamine receptor gene. Plasmid pNC-alpha-2B comprising DNA
XX encoding the alpha-2B adrenoceptor is deposited as ATCC 68144. Vectors
XX have been adapted to allow prodn. of alpha-2B adrenoceptor in bacterial,
XX yeast or mammalian cells; transfected Ltk- cells, designated L-NGC-alpha-
XX 2B, are deposited as ATCC CRL 10275. Membranes of such cells can be used in
XX novel methods to identify drugs which specifically interact with, and
XX bind to, the alpha-2B adrenergic receptor. (Updated on 25-MAR-2003 to
XX correct PF field.)
XX
SQ Sequence 2064 BP; 319 A; 696 C; 659 G; 390 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 2; Length 2064;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
DB 1278 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 1328

DR	WPI; 2003-587068/55.
XX	
PT	New recombinant nucleic acid encoding carcinoma associated protein,
XX	useful for preparing compositions for treating carcinomas.
PS	
XX	
FS	Claim 1; SEQ ID NO 1583; 245pp; English.
CC	The invention relates to recombinant carcinoma associated (CA) nucleic
CC	acid sequences from mouse and human (ADA01482-ADA03094), and to
CC	recombinant carcinoma associated proteins (CAP) encoded by them. The
CC	invention also encompasses expression vectors and host cells comprising a
CC	CA nucleic acid, a polypeptide (especially an antibody) that specifically
CC	binds to the protein, and a bioclip comprising CA nucleic acid or
CC	fragments thereof. The sequences of the invention were identified using
CC	oncogenic retroviruses, which insert into the genome of the host organism
CC	at random. Many of these do not carry transduced host oncogenes or
CC	pathogenic trans-acting viral genes, meaning that cancer incidence is a
CC	direct consequence of the effects of proviral integration into host
CC	protooncogenes. The CA nucleic acid sequences can be used to diagnose
CC	carcinoma (especially breast cancer, prostate cancer, lymphoma or
CC	leukemia) or a propensity to carcinoma by determination of the sequence
CC	of a CA gene, or by determination of CA gene expression in particular
CC	tissues. CA nucleic acids, proteins and antibodies are also useful as
CC	therapeutic agents and in screening and evaluating drug candidates. The
CC	present sequence represents a specifically claimed murine CA nucleic acid
CC	sequence of the invention. Note: The complete sequence data for this
CC	patent did not form part of the printed specification, but was obtained
CC	in electronic format directly from WIPO at
XX	ftp.wipo.int/pub/published_pct_sequences.
SQ	
Sequence	68233 BP; 18767 A; 14103 C; 14729 G; 20634 T; 0 U; 0 Other;
Query Match	81.6%; Score 41.6; DB 8; Length 68233;
Best Local Similarity	91.7%; Pred. No. 0.12;
Matches	44; Conservative 0; Mismatches 4; Indels 0; Gaps 0
Oy	1 GAGGTGTAAGTCTGAAGAGGAGAAGAGAGCAGAGAGAGAAAG 48
Dd	66088 GAGGAGGAACGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 66041
RESULT 13	
ADB72803/C	
ID	ADB72803 standard; DNA; 68233 BP.
XX	
AC	ADB72803;
XX	
DT	04-DEC-2003 (first entry)
XX	
DE	Mouse Pp3cc gene.
XX	
KW	mouse; dg; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;
XX	cancer; neoplasm; adenocarcinoma; sarcoma; gene.
OS	Mus sp.
XX	
PN	MO2003008583-A2.
XX	
PD	30-JAN-2003.
XX	
PF	26-DEC-2001; 2001WO-US051291.
XX	
PR	02-MAR-2001; 2001US-00798586.
XX	
PR	23-OCT-2001; 2001US-00004113.
XX	
PR	08-NOV-2001; 2001US-00052482.
XX	
PR	30-NOV-2001; 2001US-00997722.
XX	
PR	20-DEC-2001; 2001US-00034650.
XX	
PA	(SAGR-) SAGRES DISCOVERY.
XX	
EI	Morris DW, Engelhard EK;
XX	
OR	WPI; 2003-239337/23.

[illegible]

0! gaps 0! growth / 3

[illegible]

ADD/6418/
TD ADOT

ABQ/6418 standard; cDNA; 1721 BP.

AC ABQ76418;

21-NOV-2002 (First entry)

XX associated cDNA fragment SEQ ID 261.

neurodegeneration; cell death; ss.

Saccharomyces cerevisiae.

PN MO200264766-A2

22-AUG-2002

21-DEC-2001; 2001WO-EP015398.

22-DEC-2000; 2000EP-00870318.

09-JAN-2001; 2001EP-00870003.

JANSSEN PHARM NV, (DAINC)

conleers RH, Eberhardt I, Luyten WHML, Reekmans RJ,

P-PSDB: ABG93152

New isolated micro-

medicament for treating, preventing and/or alleviating yeast or fungal infections or proliferative disorders, or for preventing apoptosis in certain diseases.

Claim 36; Fig 1; 344pp; English

sequence 1721 BP; 501 A; 400 C; 341 G; 479 T; 0 U; 0 Other;

Query Match	79.6%;	Score 40.6;	DB 6;	Length 1721;
Best Local Similarity	91.5%;	Pred. No. 0.2;		
Matches 43;	Conservative	0;	Mismatches 4;	Indels 0; Gaps 0

Genomic Feature	Count
Insertions	0
Deletions	0
Indels	0
Gaps	0

QY	1	GAGATGAGCTGAAGAGGAGGAAGAGGAGGAGGAGGAGA	47
Db	631	GAGATGAGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGA	589

Search completed: March 2, 2004, 05:39:00
Job time : 267.5 secs

GenCore version 5.1.6
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OW nucleic - nucleic search, using sw model

Run on: March 2, 2004, 05:39:14 ; Search time 60 Seconds
(without alignments)
471.708 Million cell updates/sec

Title: US-09-692-077d-1_copy_880_930

Perfect score: 51
Sequence: 1 gagagatgaagctgaagagga.....agagagagagagagagatgc 51

Scoring table:
IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq: *
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq: *
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5: /cgn2_6/ptodata/2/ina/PCITUS_COMB.seq: *
6: /cgn2_6/ptodata/2/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	2072	4	US-09-016-434-1181 Sequence 1181, App
2	40	78.4	2663	4	US-09-533-029-47 Sequence 47, Appl
3	38.4	75.3	636	4	US-09-702-705-1668 Sequence 1668, Ap
4	38.4	75.3	636	4	US-09-736-457-1668 Sequence 1668, Ap
5	38.4	75.3	636	4	US-09-614-124B-1668 Sequence 1668, Ap
6	38.4	75.3	636	4	US-09-671-325-1668 Sequence 1668, Ap
7	38.4	75.3	650	4	US-09-328-111-333 Sequence 333, Appl
8	37.4	73.3	1194	4	US-09-220-133-31 Sequence 31, Appl
9	36.8	72.2	58	3	US-08-860-038-15 Sequence 15, Appl
10	36.8	72.2	58	3	US-08-860-038-15 Sequence 15, Appl
11	36.8	72.2	58	3	US-09-580-923-15 Sequence 15, Appl
12	36.8	72.2	58	4	US-09-580-923-15 Sequence 15, Appl
13	36.8	72.2	661	4	US-09-894-998A-34 Sequence 34, Appl
14	36.8	72.2	744	3	US-09-163-285-3 Sequence 3, Appl
15	36.8	72.2	1512	3	US-09-163-285-1 Sequence 1, Appl
16	36.8	72.2	1633	4	US-09-702-705-316 Sequence 316, Appl
17	36.8	72.2	1633	4	US-09-702-705-788 Sequence 788, Appl
18	36.8	72.2	1633	4	US-09-736-457-316 Sequence 316, Appl
19	36.8	72.2	1633	4	US-09-736-457-788 Sequence 788, Appl
20	36.8	72.2	1633	4	US-09-614-124B-316 Sequence 316, Appl
21	36.8	72.2	1633	4	US-09-614-124B-788 Sequence 788, Appl
22	36.8	72.2	1633	4	US-09-671-325-316 Sequence 316, Appl
23	36.8	72.2	1633	4	US-09-671-325-788 Sequence 788, Appl
24	36.8	72.2	1633	4	US-09-589-184-316 Sequence 316, Appl
25	36.8	72.2	1633	4	US-09-589-184-788 Sequence 788, Appl
26	36.8	72.2	2817	4	US-09-620-312D-1085 Sequence 1085, Appl
27	36.8	72.2	5561	4	US-09-418-710-28 Sequence 28, Appl

ALIGNMENTS

28	36.8	72.2	5573	4	US-09-418-710-30 Sequence 30, Appl
29	36.8	72.2	6114	4	US-09-495-714C-5 Sequence 5, Appl
30	36.8	72.2	43676	3	US-09-356-952-12 Sequence 12, Appl
31	36.8	72.2	51259	3	US-08-781-891-209 Sequence 209, Appl
32	36.8	72.2	51259	4	US-09-618-166-209 Sequence 209, Appl
33	36.4	71.4	2609	3	US-09-141-212-7 Sequence 7, Appl
34	36.4	71.4	2609	3	US-09-561-138-7 Sequence 7, Appl
35	36.4	71.4	2669	3	US-09-141-212-9 Sequence 9, Appl
36	36.4	71.4	2669	3	US-09-561-138-9 Sequence 9, Appl
37	36.4	71.4	2693	3	US-09-141-212-5 Sequence 5, Appl
38	36.4	71.4	2693	3	US-09-561-138-5 Sequence 5, Appl
39	36.4	71.4	3255	2	US-08-916-917-11 Sequence 11, Appl
40	36.4	71.4	3255	3	US-09-225-170-11 Sequence 11, Appl
41	36.4	71.4	3630	3	US-09-378-255-5 Sequence 5, Appl
42	36.4	71.4	3630	3	US-09-141-212-1 Sequence 1, Appl
43	36.4	71.4	3630	3	US-09-141-212-3 Sequence 3, Appl
44	36.4	71.4	3630	3	US-09-552-351-3 Sequence 3, Appl
45	36.4	71.4	3630	3	US-09-251-372-5 Sequence 5, Appl

RESULT 1
US-09-016-434-1181
Sequence 1181, Application US/09016434
Patent No. 6500938
GENERAL INFORMATION:
APPLICANT: Janice Au-Young
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESS: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,434
FILING DATE: HERewith
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1181:
SEQUENCE CHARACTERISTICS:
LENGTH: 2072 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: 9178197
US-09-016-434-1181
Query Match: 100.0%; Score 51; DB 4; Length 2072;
Best Local Similarity 100.0%; Pred. No. 2.8e-05;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

0y 1 GAGATGAAGCTGAGAGCGAAGAGGAGAGGAGAGGAGAGGAGAGTGT 51
|||
Db 1292 GAGATGAGCTGAAGAGAGGAGAGGAGAGGAGAGGAGAGGAGAGTGT 51
|||

12

RESULT 2

US-09-533-029-47
; Sequence 47, Application US/09533029
; Patent No. 533-029

; GENERAL INFORMATION:

1 APPLICANT: Heard, Jacqueline
 2 APPLICANT: Brown, Pierre
 3 APPLICANT: Riechmann, Jose-Luis
 4 APPLICANT: Keddie, James
 5 APPLICANT: Pineda, Omarla
 6 APPLICANT: Adam, Luc
 7 APPLICANT: Samaha, Raymond
 8 APPLICANT: Zhang, James
 9 APPLICANT: Yu, Guo-Jiang
 10 APPLICANT: Ratcliffe, Oliver
 11 APPLICANT: Pilgrim, Marsha
 12 APPLICANT: Jiang, Cai-Zhong
 13 APPLICANT: Reuber, Lynne
 14 TITLE OF INVENTION: DISEASE-INDUCED POLYNUCLEOTIDES
 15 FILE REFERENCE: MB1-010
 16 CURRENT APPLICATION NUMBER: US/09/533,029
 17 CURRENT FILING DATE: 2000-03-22
 18 EARLIER APPLICATION NUMBER: 60/125,814
 19 EARLIER FILING DATE: 1999-03-23
 20 NUMBER OF SEQ ID NOS: 121
 21 SOFTWARE: Patentin Ver. 2.1
 22 SEQ ID NO: 47
 23 LENGTH: 2663
 24 TYPE: DNA
 25 ORGANISM: Arabidopsis thaliana
 26 FEATURE:
 27 OTHER INFORMATION: GI089
 28 -09-533-029-47

Query Match	78.4%	Score 40;	DB 4;	Length 2663;
Best Local Similarity	89.6%	Pred No	0.010	

Matches	43;	Conservative	0;	Mismatches	5;	Indels	0;	Gaps	0;
---------	-----	--------------	----	------------	----	--------	----	------	----

Dy 1 GAGGATGAAGCTGAGAGAGCGAAGAAGAGAGAGAGAGAGAGAG 48
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 865 GATGACGAAGATGAGGAGAGCGAAGAGCGAAGAGAGAGAGAGAG 912

RESULT 3
US-09-702-705-1668

Sequence 1668, Application US/09702705
Patent No. 6504010
GENERAL INFORMATION:
APPLICANT: Wang, Tongtong
APPLICANT: Bangur, Chaltanga S.
APPLICANT: Lodes, Michael A.
APPLICANT: Fanger, Gary
APPLICANT: Vedwick, Tom
APPLICANT: Carter, Darrick
APPLICANT: Retter, Marc
APPLICANT: Mannion, Jane
APPLICANT: Fan, Lidun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: DIAGNOSIS OF LUNG CANCER
CURRENT APPLICATION NUMBER: 210121.478C14
CURRENT FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 1833
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1668
LENGTH: 636

```

; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-702-705-1668

```

Query Match	75.3%;	Score 38.4;	DB 4;	Length 636;
Best Local Similarity	87.5%;	Pred. NO. 0.045;		
Matches	48			

```

matches 42; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

```

DY 1 GAGGATGAGCTGAGACGAGGAGAGAGAGGAGGAGGAGAAGC 48
|| ||||||| || ||||||| || ||||||| || ||||||| ||
Db 571 GAGATGAGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG

RESULT 4

US-09-736-457-1668
Sequence 1668, Application US/09736457
Patent No. 6509448
GENERAL INFORMATION:
APPLICANT: Wang, Tongrong
APPLICANT: Bangur, Chaitanya S.
APPLICANT: Lodes, Michael A.
APPLICANT: Ranger, Gary
APPLICANT: Vedwick, Tom
APPLICANT: Carter, Darrick
APPLICANT: Retter, Marc
APPLICANT: Mannion, Jane
APPLICANT: Fan, Liqun
APPLICANT: Wang, Aijun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.478C15
CURRENT APPLICATION NUMBER: US/09/736,457
CURRENT FILING DATE: 2000-12-13
NUMBER OF SEQ ID NOS: 1864
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1668
LENGTH: 636
TYPE: DNA
ORGANISM: Homo sapiens
US-09-736-457-1668

Query Match	75.3%	Score 38.4	DB 4	Length 636
Best Local Similarity	87.5%			
Matches	42	Pred. No. 0.045		

Matches	42;	Conservative	0;	Mismatches	6;	Indels	0;	Gaps	0;
---------	-----	--------------	----	------------	----	--------	----	------	----

Dy 1 GAGATGACCTTGAAAGAGAGAAGCGAGGAGAGAGAG 48
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 571 GAAGATGAAGAGAGAGAGAGAAAGACGAGGAGAGAGAGAG 618
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 5

```

US-09-614-124B-1668
: Sequence 1668, Application US/09614124B
: Patent No. 6630574
:
: GENERAL INFORMATION:
:
: APPLICANT: Wang, Tongtong
:
: APPLICANT: Bangur, Chaityanya S.
:
: APPLICANT: Lodes, Michael A.
:
: APPLICANT: Fanger, Gary
:
: APPLICANT: Vedivick, Tom
:
: APPLICANT: Carter, Darriick
:
: APPLICANT: Retter, Marc
:
: APPLICANT: Mannion, Jane
:
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
:
: TITLE OF INVENTION: DIAGNOSTICS OF LUNG CANCER
:
: FILE REFERENCE: 210121.478C9
:
: CURRENT APPLICATION NUMBER: US/09/614,124B
:
: CURRENT FILING DATE: 2001-07-11
:
: NUMBER OF SEQ ID NOS: 1668
:
: SOFTWARE: FastSeq for Windows Version 3.0
:
: SEQ ID NO 1668
:
: LENGTH: 636
:
: TYPE: DNA

```


APPLICANT: Blanche, Francis

APPLICANT: Blanche, Francis

```

1  TITLE OF INVENTION:  PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN
2  TITLE OF INVENTION:  IMMobilIZED OLIGONUCLEOTIDE
3  FILE REFERENCE:  03804.0138-01
4  CURRENT APPLICATION NUMBER:  US/09/560,923
5  CURRENT FILING DATE:  2000-05-26
6  PRIOR APPLICATION NUMBER:  08/860,038
7  PRIOR FILING DATE:  1997-06-09
8  PRIOR APPLICATION NUMBER:  PCT/FR95/01468
9  PRIOR FILING DATE:  1995-11-08
10 NUMBER OF SEQ.ID NOS:  36
11 SOFTWARE:  Patentin Ver. 2.1
12 SEQ ID NO 16
13 LENGTH:  58
14 TYPE:  DNA
15 ORGANISM:  Artificial Sequence
16 FEATURE:
17 OTHER INFORMATION:  Description of Artificial Sequence:
18 OTHER INFORMATION:  oligonucleotide
19 US-09-560-923-16

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[illegible]

RESULT 13
US-09-894-998A-34/C

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Sequence 34, Application US/09894998A
Patent No. 6537555
GENERAL INFORMATION:
APPLICANT: Hoeken, Nancy Ann
APPLICANT: Craig H. Day
APPLICANT: David C. Dillon
APPLICANT: McGowan, Patrick
APPLICANT: Steach, Paul R
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
FILE REFERENCE: 210121.538
CURRENT APPLICATION NUMBER: US/09/894,998A
CURRENT FILING DATE: 2001-06-28
NUMBER OF SEQ ID NOS: 64
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 34
LENGTH: 661
TYPE: DNA
ORGANISM: HSV-2
IS-09-894-998A-34

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	Best Local Similarity	85.4%;	Pred.	No. 0.12;	
Matches	41;	Conservative	0;	Mismatches	7; Indels 0; Gaps 0;
OY	1	GAGGATCAGCTGAAGACGAGAAAGAGAAGAGCGAGAGCGAGAGAG	48		
Dδ	51	GAGGAGGAGGAGGAGAGAGGCCAAGAGGAGAGCGAGAGCGCAAGAG	4		

RESULT 14
US-09-163-285-3
; Sequence 3, Application US/09163285

? Patent No. 6204013
 ? GENERAL INFORMATION:
 ? APPLICANT: Khodadoust, Mehran
 ? TITLE OF INVENTION: NOVEL MSP-5 PROTEIN AND NUCLEIC ACID MOLECULES
 ? TITLE OF INVENTION: AND USFS THEROF
 ? NUMBER OF SEQUENCES: 4
 ? CORRESPONDENCE ADDRESS:
 ? ADDRESSEE: LAHIVE & COCKFIELD, LLP
 ? STREET: 28 State Street

CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/163,285
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 60/090,398
 FILING DATE: June 24, 1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Mandiregouras, Amy E.
 REGISTRATION NUMBER: 36,207
 REFERENCE/DOCKET NUMBER: MNI-049
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)742-4214
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 744 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..744
 US-09-163-285-3

LOCATION: 1..744
US-09-163-285-3

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Query Match      72.2%; Score 36.8; DB 3; Length 744;
Best Local Similarity 85.4%; Pred. No. 0.13;
Matches 41; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Oy      1 GAGGNTAAGCTGTAAGACGAGAGAGAGAGAGAGAGAGAG 48
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Db      628 GAAAGAGAAACAGAGGCGAGAGAGAGAGAGAGAGAGAGAG 675

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RESULT 15
US-09-163

; Sequence 1, Application US/09163285
; Patent No. 6204013
; CHURCH & DWIGHT

1 APPLICANT: Rhodagoust, Mehnan
2 TITLE OF INVENTION: NOVEL MSP-5 PROTEIN AND NUCLEIC ACID MOLECULES
3 TITLE OF INVENTION: NOVEL MSP-5 PROTEIN AND NUCLEIC ACID MOLECULES
4 NUMBER OF SEQUENCES: 4
5 CORRESPONDENCE ADDRESS:
6 ADDRESSEE: LAHYE & COCKFIELD, LLP
7 STREET: 28 State Street

CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM

COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/09/163,285
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/090
FILING DATE: June 24, 1998

ATTORNEY/AGENT INFORMATION:

Tue Mar 2 17:00:55 2004

us-09-692-077d-1_copy_880_930.rn1

Page 6

```

? NAME: Mandragoraea, Amy E.
? REGISTRATION NUMBER: 36,207
? REFERENCE/PROJECT NUMBER: MNI-049
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617)227-7400
? TELEFAX: (617)742-4214
? INFORMATION FOR SEQ ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1512 base pairs
? type: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? FEATURE:
? NAME/KEY: CDS
? LOCATION: 125..868
US-09-163-285-1

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	Best Local Similarly	85.4%;	Pred. No.	0.12;	Matches
	Matches	41;	Conservative	0;	Mismatches 7; Indels 0; Gaps 0;
OY	1	GAGGATGAGCTGAACAGCAGGCAGCGAGGAGGAGAAG	48		
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Job time : 61 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 10:12:50 ; Search time 140 Seconds

(without alignments)
1314.149 Million cell updates/sec

Title: US-09-692-077D-1_COPY_880_930

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Sequence: IDENTITY NUC

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Searched: 2353733 seqs, 1803733377 residues

Total number of hits satisfying chosen parameters: 4707466

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	1353	9	US-09-825-923-3
2	51	100.0	1353	14	US-10-077-870-3
3	51	100.0	1353	14	US-10-001-073-1
4	51	100.0	2072	15	US-10-305-720-1181
5	51	100.0	3274	14	US-10-225-567A-41
6	41.6	81.6	68233	15	US-10-034-650-31
7	41.6	81.6	215980	10	US-09-972-546-16
8	40.2	78.8	1344	9	US-09-825-923-1
9	40.2	78.8	1344	14	US-10-077-870-1
10	40	78.4	223	9	US-09-728-444-146
11	40	78.4	234	9	US-09-728-446-1420
12	40	78.4	330	9	US-09-728-444-124
13	40	78.4	642	12	US-10-425-114-10213
14	40	78.4	1173	15	US-10-161-927-81
15	40	78.4	1178	15	US-10-161-927-83

16	40	78.4	1290	12	US-10-424-599-47976	Sequence 47976, A
17	40	78.4	1433	12	US-10-425-114-19415	Sequence 19415, A
18	40	78.4	2367	14	US-10-128-714-6204	Sequence 6204, Ap
19	40	78.4	2367	14	US-10-128-714-7204	Sequence 7204, Ap
20	40	78.4	2663	10	US-09-533-029-47	Sequence 47, Appl
21	40	78.4	2663	10	US-09-934-455-177	Sequence 177, App
22	40	78.4	2663	10	US-10-225-068-65	Sequence 65, Appl
23	40	78.4	2663	15	US-10-302-267-45	Sequence 45, Appl
24	40	78.4	2663	15	US-10-374-780A-229	Sequence 229, App
25	40	78.4	4238	14	US-10-128-714-5204	Sequence 5204, Ap
26	40	78.4	4367	14	US-10-128-714-5204	Sequence 5204, Ap
27	39	76.5	191	14	US-10-029-386-17979	Sequence 17979, A
28	39	76.5	423	9	US-09-864-761-18355	Sequence 18355, A
29	39	76.5	487	9	US-09-864-761-1597	Sequence 1597, Ap
30	39	76.5	543	14	US-10-029-386-4279	Sequence 4279, Ap
31	39	76.5	1764	16	US-10-211-859-4	Sequence 4, Appl
32	39	76.5	1788	10	US-09-893-519A-115	Sequence 115, App
33	39	76.5	1977	14	US-10-102-806-216	Sequence 216, App
34	39	76.5	2134	15	US-10-027-632-97636	Sequence 97636, A
35	39	76.5	2480	15	US-10-027-632-103743	Sequence 103743, A
36	39	76.5	2480	15	US-10-027-632-111750	Sequence 111750, A
37	39	76.5	3769	14	US-10-175-523-184	Sequence 184, App
38	39	76.5	23130	9	US-09-764-869-1892	Sequence 1892, Ap
39	39	76.5	23130	14	US-10-091-504-1892	Sequence 1892, Ap
40	39	76.5	23130	15	US-10-227-577-1892	Sequence 1892, Ap
41	39	76.5	53226	9	US-09-818-264-3	Sequence 3, Appl
42	39	76.5	106664	14	US-10-175-523-97	Sequence 97, Appl
43	38.6	75.7	6222	15	US-10-120-988-114	Sequence 114, App
44	38.6	75.7	6452	9	US-09-954-456-308	Sequence 308, App
45	38.4	75.3	54	15	US-10-418-182-296	Sequence 296, App

ALIGNMENTS

RESULT 1

US-09-825-923-3

Sequence 3, Application US/09825923

Patent No. US20010016138A1

GENERAL INFORMATION:

APPLICANT: Snapir, Amir

APPLICANT: Heimonen, Paula

APPLICANT: Alhopuro, Pia

APPLICANT: Karvonen, Matti

APPLICANT: Koulou, Markku

APPLICANT: Pesonen, Ulla-Mari

APPLICANT: Scheinin, Mika

APPLICANT: Salonen, Jukka T

APPLICANT: Tuomainen, Tomi-Pekka

APPLICANT: Lakka, Timo A

APPLICANT: Nyyssänen, Kristiina

APPLICANT: Salonen, Riitta

APPLICANT: Kauphanen, Jussi

APPLICANT: Valkonen, Veli-Pekka

TITLE OF INVENTION: A DNA molecule encoding a variant alpha-2B-adrenoceptor

TITLE OF INVENTION: protein, and uses thereof

FILE REFERENCE: Alpha-2B-AR variant

CURRENT APPLICATION NUMBER: US/09/825,923

CURRENT FILING DATE: 2001-04-05

PRIOR APPLICATION NUMBER: 09/422,985

PRIOR FILING DATE: 2000-05-25

NUMBER OF SEQ ID NOS: 10

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 3

LENGTH: 1353

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(1350)

OTHER INFORMATION: Coding sequence for human alpha-2B-adrenoceptor

OTHER INFORMATION: protein

US-09-825-923-3

	Query Match	100.0%	Score 51;	DB:9;	Length 1353;
	Best Local Similarity	100.0%;	Pred. No.	9.7e-06;	
	Matches	51;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0
QY	1	GAGGATGAAGCTGAAGAAGAGAAAGAGACGACGACGACGACGACGACGTCT	51		
Dd	880	GAGGATGAAGCTGAAGAAGAGAAAGAGACGACGACGACGACGACGACGTCT	930		

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RESULT 2
US-10-077-870-3
; Sequence 3, Application US/10077870
; Publication No. US20030003470A1
GENERAL INFORMATION:
APPLICANT: Salonen, Jukka T
TITLE OF INVENTION: Method for detecting a risk of hypertension and uses thereof
FILE REFERENCE: 0933-0183P
CURRENT APPLICATION NUMBER: US/10/077,870
CURRENT FILING DATE: 2002-05-21
PRIORITY APPLICATION NUMBER: FI 20010323
PRIORITY FILING DATE: 2001-02-20
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 3.1
SEQ ID NO 3
LENGTH: 1353
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(1350)
OTHER INFORMATION: Coding sequence for human alpha-2B-adrenoceptor protein
US-10-077-870-3

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OY **I** GAGATGTAAGCTGAAGAAGAGAAAGAGAGAGAGAGAGTGT 51
 |||||
Dd **B80** GAGATTGAAGCTGAAGAAGAGAAAGAGAGAGAGAGAGAAAGTGT 930
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RESULT 3
US-10-001-073-1
/ Sequence 1, Application US/10001073
/ Publication No. US20030113725A1
/ GENERAL INFORMATION:
/ APPLICANT: Liggett, Stephen
/ APPLICANT: Small, Kirsten
/ TITLE OF INVENTION: Alpha-2-adrenergic receptor polymorphisms
/ FILE REFERENCE: 13073-PCT
/ CURRENT APPLICATION NUMBER: US/10/001, 073
/ CURRENT FILING DATE: 2001-11-01
/ NUMBER OF SEQ ID NOS: 53
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 1
/ LENGTH: 1353
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-001-073-1

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	Query Match	100.0%	Score 51	DB 14	Length 1353,
	Best Local Similarity	100.0%	Pred. No. 9,76-06,		
	Matches	51	Conservative	0	Mismatches 0; Indels 0; Gaps 0;
OY	1	GAGGATGAAGTCGAAGAGACGAAAGCAGAAGCGAGAGCGAAGACTGT			51
Dd	880	GAGGATGAAGCTGAAGAGACGAAAGCAGAAGCGAGAGCGAAGACTGT			930

RESULT 4
US-10-305-720-1181

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/ Sequence 1181, Application US/10305720
/ Publication No. US20040010136A1
/ GENERAL INFORMATION:
/ APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
/ TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
/ FILE REFERENCE: PA-0002-1 CON
/ CURRENT APPLICATION NUMBER: US/10/305,720
/ PRIORITY FILING DATE: 2002-11-26
/ PRIOR APPLICATION NUMBER: 09/016,434
/ PRIOR FILING DATE: 1998-01-30
/ NUMBER OF SEQ ID NOS: 1490
/ SOFTWARE: PERL Program
/ SEQ ID NO 1181
/ LENGTH: 2072
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ OTHER INFORMATION: GenBank ID No. US20040010136A1 g178197
US-10-305-720-1181

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	Query Match	Similarity	Score	DB	Length
Best Local Similarity	100.0%	100.0%	51	15	2072;
Matches	51; Conservative	0; Mismatches	9-6e-06;	Indels	0; Gaps
QY	1	GAGGATGAAGCTGTAGAAGAGAAAGACGACGAGAGAGAGAGAGAAACTGT	51		
Ddb	1292	GAGGATCAAGCTGTAGAAGAGAAAGACGACGAGAGAGAGAGAGAAAGTGT	1342		

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RESULT 5
US-10-225-567A-41
; Sequence 41, Application US/10225567A
; Publication No. US20030113798A1
GENERAL INFORMATION:
APPLICANT: Lifespan Biosciences
APPLICANT: Brown, Joseph P.
APPLICANT: Burner, Glenna C.
APPLICANT: Roush, Christine L.
TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
FILE REFERENCE: 1920-4-4
CURRENT APPLICATION NUMBER: US/10/225,567A
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/257,144
PRIOR FILING DATE: 2000-12-19
NUMBER OF SEQ. ID NOS: 2292
SOFTWARE: PatentIn version 3.1
SEQ. ID NO. 41
LENGTH: 3274
TYPE: DNA
ORGANISM: Homo sapiens
US-10-225-567A-41

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Query Match	100.0%	Score 51	DB 14	Length 327
Best Local Similarity	100.0%	Pred. No. 4	de-06	
Matches 51	Conservative 0	Mismatches 0	Indels 0	Gaps 0
Qy	1	GAGGATGAAGTGAAGCAGGAAAGACAGAGAGAGAGAGAGAGTGT	51	
Db	880	GAGAGTAAAGCTGAAGAGAGAGAAAGAGAGAGAGAGAGAGAGAGTGT	930	

RESULT 6
US-10-034-650-31/C
Sequence 31, Application US/10034650
Publication No. US20000216558A1
GENERAL INFORMATION:
APPLICANT: MORRIS, David
APPLICANT: Engelhardt, Eric
TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
TREATMENT OF CANCER
TITLE OF INVENTION: CANCER
FILE REFERENCE: 529452000128
CURRENT APPLICATION NUMBER: US/10/034,650

1	NAME/KEY: modified_base	
2	LOCATION: (15939)_(16038)	
3	OTHER INFORMATION: a, t, c, g, other or unknown	
4	NAME/KEY: modified_base	
5	LOCATION: (18223)_(18222)	
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7	NAME/KEY: modified_base	
8	LOCATION: (20974)_(21073)	
9	OTHER INFORMATION: a, t, c, g, other or unknown	
10	NAME/KEY: modified_base	
11	LOCATION: (227574)_(227673)	
12	OTHER INFORMATION: a, t, c, g, other or unknown	
13	NAME/KEY: modified_base	
14	LOCATION: (30892)	
15	OTHER INFORMATION: a, t, c, g, other or unknown	
16	NAME/KEY: modified_base	
17	LOCATION: (30901)_(31000)	
18	OTHER INFORMATION: a, t, c, g, other or unknown	
19	NAME/KEY: modified_base	
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24	OTHER INFORMATION: a, t, c, g, other or unknown	
25	NAME/KEY: modified_base	
26	LOCATION: (42373)	
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28	NAME/KEY: modified_base	
29	LOCATION: (42386)	
30	OTHER INFORMATION: a, t, c, g, other or unknown	
31	NAME/KEY: modified_base	
32	LOCATION: (42393)	
33	OTHER INFORMATION: a, t, c, g, other or unknown	
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35	LOCATION: (42461)	
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41	LOCATION: (51380)_(51479)	
42	OTHER INFORMATION: a, t, c, g, other or unknown	
43	NAME/KEY: modified_base	
44	LOCATION: (56740)	
45	OTHER INFORMATION: a, t, c, g, other or unknown	
46	NAME/KEY: modified_base	
47	LOCATION: (56765)_(56664)	
48	OTHER INFORMATION: a, t, c, g, other or unknown	
49	NAME/KEY: modified_base	
50	LOCATION: (62818)_(62917)	
51	OTHER INFORMATION: a, t, c, g, other or unknown	
52	NAME/KEY: modified_base	
53	LOCATION: (68518)	
54	OTHER INFORMATION: a, t, c, g, other or unknown	
55	NAME/KEY: modified_base	
56	LOCATION: (68534)_(68633)	
57	OTHER INFORMATION: a, t, c, g, other or unknown	
58	NAME/KEY: modified_base	
59	LOCATION: (74552)_(74651)	
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61	NAME/KEY: modified_base	
62	LOCATION: (81446)_(81545)	
63	OTHER INFORMATION: a, t, c, g, other or unknown	
64	NAME/KEY: modified_base	
65	LOCATION: (88519)_(88618)	
66	OTHER INFORMATION: a, t, c, g, other or unknown	
67	NAME/KEY: modified_base	
68	LOCATION: (93791)	
69	OTHER INFORMATION: a, t, c, g, other or unknown	
70	NAME/KEY: modified_base	

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1  TITLE OF INVENTION: Method for detecting a risk of hypertension and uses thereof
2  FILE REFERENCE: 0933-0183P
3  CURRENT APPLICATION NUMBER: US/10/077, 870

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 07:20:29 ; Search time 2886 Seconds
(without alignments)
621.792 Million cell updates/sec

Title: US-09-692-077D-1_COPY_880_930

Perfect score: 51 gagagctgaagctgaagaga.....aggagagaggaagagatcgt 51

Sequence:

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 37577330 seqs, 17593059518 residues

Total number of hits satisfying chosen parameters: 75154660

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents, NA Main:*

1: /cgn2_6/ptodata/2/pna/US06_COMB.seq.*
2: /cgn2_6/ptodata/2/pna/US06_COMB.seq.*
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22: /cgn2_6/ptodata/2/pna/US095B_COMB.seq.*
23: /cgn2_6/ptodata/2/pna/US095C_COMB.seq.*
24: /cgn2_6/ptodata/2/pna/US095D_COMB.seq.*
25: /cgn2_6/ptodata/2/pna/US096A_COMB.seq.*
26: /cgn2_6/ptodata/2/pna/US096B_COMB.seq.*
27: /cgn2_6/ptodata/2/pna/US096C_COMB.seq.*
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29: /cgn2_6/ptodata/2/pna/US096E_COMB.seq.*
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39: /cgn2_6/ptodata/2/pna/US099C_COMB.seq.*
40: /cgn2_6/ptodata/2/pna/US099D_COMB.seq.*
41: /cgn2_6/ptodata/2/pna/US099E_COMB.seq.*
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43: /cgn2_6/ptodata/2/pna/US100A_COMB.seq.*

44: /cgn2_6/ptodata/2/pna/US100B_COMB.seq.*
45: /cgn2_6/ptodata/2/pna/US101A_COMB.seq.*
46: /cgn2_6/ptodata/2/pna/US101B_COMB.seq.*
47: /cgn2_6/ptodata/2/pna/US102A_COMB.seq.*
48: /cgn2_6/ptodata/2/pna/US102B_COMB.seq.*
49: /cgn2_6/ptodata/2/pna/US103A_COMB.seq.*
50: /cgn2_6/ptodata/2/pna/US103B_COMB.seq.*
51: /cgn2_6/ptodata/2/pna/US104A_COMB.seq.*
52: /cgn2_6/ptodata/2/pna/US104B_COMB.seq.*
53: /cgn2_6/ptodata/2/pna/US106_COMB.seq.*
54: /cgn2_6/ptodata/2/pna/US107A_COMB.seq.*
55: /cgn2_6/ptodata/2/pna/US107B_COMB.seq.*
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57: /cgn2_6/ptodata/2/pna/US6001_COMB.seq.*
58: /cgn2_6/ptodata/2/pna/US6002_COMB.seq.*
59: /cgn2_6/ptodata/2/pna/US6003_COMB.seq.*
60: /cgn2_6/ptodata/2/pna/US6004_COMB.seq.*
61: /cgn2_6/ptodata/2/pna/US6005_COMB.seq.*
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63: /cgn2_6/ptodata/2/pna/US6007_COMB.seq.*
64: /cgn2_6/ptodata/2/pna/US6008_COMB.seq.*
65: /cgn2_6/ptodata/2/pna/US6009_COMB.seq.*
66: /cgn2_6/ptodata/2/pna/US6010_COMB.seq.*
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68: /cgn2_6/ptodata/2/pna/US6012_COMB.seq.*
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73: /cgn2_6/ptodata/2/pna/US6017_COMB.seq.*
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79: /cgn2_6/ptodata/2/pna/US6023A_COMB.seq.*
80: /cgn2_6/ptodata/2/pna/US6023B_COMB.seq.*
81: /cgn2_6/ptodata/2/pna/US6024_COMB.seq.*
82: /cgn2_6/ptodata/2/pna/US6025_COMB.seq.*
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98: /cgn2_6/ptodata/2/pna/US6041_COMB.seq.*
99: /cgn2_6/ptodata/2/pna/US6042_COMB.seq.*
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101: /cgn2_6/ptodata/2/pna/US6044_COMB.seq.*
102: /cgn2_6/ptodata/2/pna/US6045_COMB.seq.*
103: /cgn2_6/ptodata/2/pna/US6046_COMB.seq.*
104: /cgn2_6/ptodata/2/pna/US6047_COMB.seq.*
105: /cgn2_6/ptodata/2/pna/US6048_COMB.seq.*
106: /cgn2_6/ptodata/2/pna/US6049_COMB.seq.*
107: /cgn2_6/ptodata/2/pna/US6050_COMB.seq.*
108: /cgn2_6/ptodata/2/pna/US6051_COMB.seq.*
109: /cgn2_6/ptodata/2/pna/US6052_COMB.seq.*
110: /cgn2_6/ptodata/2/pna/US6053_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES


```

; SOFTWARE: Patsrq for Windows Version 4.0
; SFO ID NO 1935
; LENGTH: 481
; TYPE: DNA
; ORGANISM: Human
US-60-169-842-1935

```

Query Match	100.0%	Score 51	DB 72	Length 481
Best Local Similarity	100.0%	Pred. NC	0.14	
Matches 51	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy 1 GAGGATGAACTGAAGAGGAGAAAGAGAGAGAGAGAGAGAGTGT 51
Db 227 GAGGATGAACTGAAGAGGAGAAAGAGAGAGAGAGAGAGAGTGT 177

RESULT 5
US-60-170-346-61/c
; Sequence 61, Application US/60170346

; APPLICANT: Bonazzi, Vivien
 ; TITLE OF INVENTION: ISOLATED HUMAN GPCR PROTEIN, NUCLEIC
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN GPCR PROTEINS AND USES THEREOF

```

; FILE REFERENCE: CL000147
; CURRENT APPLICATION NUMBER: US/60/170,346
; CURRENT FILING DATE: 1999-12-13
; NUMBER OF SEQ. IN REG. 3000

```

```
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 61
;; LENGTH: 481
;;
```

```

; TYPE: DNA
; ORGANISM: Human
US-60-170-346-61

```

Query Match	100.0%	Score 51:	DB 73:	Length 481:
Best Local Similarity	100.0%	Pred. No.	0.14:	
Matches	51:	Conservative	0:	Mismatches
			0:	Indels
				Gaps
				0

Dy 1 GAGGATGAACCTGAAGAGGAAAGAGAGCGAGAGCAAGAACTGT 51
|||
Db 227 GAGGATGAACCTGAAGAGGAAAGAGAGCGAGAGCAAGAACTGT 177

RESULT 6
US-09-726-174-3537
Sequence 3537, Application US/09726174

APPLICANT: Gearing, David P.
APPLICANT: Holtzman, Douglas A.
TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES THEREOF

FILE REFERENCE: 1600.2012-001
CURRENT APPLICATION NUMBER: US/09/726,174
CURRENT FILING DATE: 2000-11-29
PRIOR APPLICATION NUMBER: 00/167,057

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; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 5942
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3537

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; LENGTH: 516
; TYPE: DNA
; ORGANISM: Homo sapiens
; REAGENT:

```

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; NAME/KEY: misc_feature
; LOCATION: (1) .. (516)
; OTHER INFORMATION: n = A,T,C or G
US-09-736-174-3537

```

Query Match	100.0%;	Score 51;	DB 31;	Length 516;
Best Local Similarity	100.0%;	Pred. No. 0.14;		
Matches 51;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 1 GAGGATGAAGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 51

Db 243 GAGGATGAAGCTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 293

RESULT 7
US-60-160-189-1492

```

: GENERAL INFORMATION:
: APPLICANT: BONAZZI,
: TITLE OF INVENTION: ISOLATED HUMAN DRUG TARGET PROTEINS,
: DATE OF INVENTION: 1987-01-01
: TITLE OF INVENTION: HUMAN DRUG TARGET PROTEINS,
: DATE OF INVENTION: 1987-01-01
: TITLE OF INVENTION: HUMAN DRUG TARGET PROTEINS,
: DATE OF INVENTION: 1987-01-01

```

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; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000112
; CURRENT APPLICATION NUMBER: US/60/160,189
; CURRENT FILING DATE: 1998-10-16

```

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; NUMBER OF SEQ ID NOS: 10162
; SOFTWARE: FastSeq for Windows Version 4.00
; SEQ ID NO 1492
; LENGTH: 569

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; TYPE: DNA
; ORGANISM: HUMAN
US-60-160-189-1492

```

Query Match	100.0%;	Score 51;	DB 72;	Length 569;
Best Local Similarity	100.0%;	Pred. No. 0.14;		
Matches	51;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0

Dy 1 GAGGATGACCTGAAGAGCGAAGAGGAGGAGGAGGAGTGT 51
|||
Db 24 GAGGATGACCTGAAGAGCGAAGAGGAGGAGGAGGAGGAGTGT 74

RESULT 8
US-60-160-190-231
; Sequence 231, Application US/60160190
CENTRAL INTELLIGENCE DIVISION.

APPLICANT: BONAZZI, VIVIAN
TITLE OF INVENTION: ISOLATED HUMAN ION CHANNEL PROTEINS
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN ION CHANNEL PROTEINS
TITLE OF INVENTION: AND USES THEREOF

```

; FILE REFERENCE: CL000115
;
; CURRENT APPLICATION NUMBER: US/60/160,190
;
; CURRENT FILING DATE: 1998-10-19
;
; NUMBER OF SEQ ID NOS: 3284

```

```

; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 231
;
; LENGTH: 569
;
; TYPE: DNA

```

```

; TYPE: DNA
; ORGANISM: HUMAN
US-60-160-190-231

```

Query Match	100.0%	Score 51	DB 72	Length 569
Best Local Similarity	100.0%	Pred. No. 0.14		
Matches	51	Conservative	0	Mismatches 0; Indels 0; Gaps 0;

oy	1	GAGGATGGAAGCTGAAAGAGGAGAAAGAGAGAGGAGGAGGAGGAGGAGAGT	51
Db	24	GAGGATGAAGCTGAAGAGGAGGAAGAGAGAGGAGGAGGAGGAGGAAGAGTGT	74

RESULTS
US-60-160-202-659
; Sequence 659, Application US/60160202
; GENERAL INFORMATION:

APPLICANT: BONAZZI, VIVIAN
 TITLE OF INVENTION: ISOLATED HUMAN GPCR PROTEIN, NUCLEIC
 TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN GPCR PROTEINS AND USES THEREOF
 FTR REFERENCE: CL000114

FILE REFERENCE: CU000114
CURRENT APPLICATION NUMBER: US/60/160,202
CURRENT FILING DATE: 1999-10-19
NUMBER OF SEQ ID NOS: 4392

; SEQ ID NO 659

; SEQ ID NO 659

```

; LENGTH: 569
; TYPE: DNA
; ORGANISM: HUMAN
US-60-160-202-659

```

Query Match	100.0%;	Score 51;	DB 72;	Length 569;
Best Local Similarity	100.0%;	Pred. No. 0.14;		
Matches 51; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0

Dy 1 GAGGATGAAGCTGAAGAAGAGAGAGAGAGAGAGAAAGTGT 51
 |||||
Db 24 GAGGATGAAGCTGAAGAAGAGAGAGAGAGAGAGAGAAAGTGT 74

RESULT 10
US-60-169-840-3708
; Sequence 3708, Application US/60169840
; GENERAL INFORMATION:

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; CURRENT APPLICATION NUMBER: US/60/169,840
; CURRENT FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 9628
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 3708

```

ORGANISM: Human
US-60-169-840-3708

Query Match	100.0%	Score 51;	DB 72;	Length 569;
Best Local Similarity	100.0%	Pred. No. 0.14;		
Matches	51;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0

DB

24 GAGGATGAACCTGAAGAGCGAAGAAGCAGAGCAGCAGCAAGACTGT 74

RESULT 11
US-60-169-841-1172
; Sequence 1172, Application US/60169841
GENERAL INFORMATION.

APPLICANT: BONAZZI, VIVLEN
 TITLE OF INVENTION: ISOLATED HUMAN ION CHANNEL PROTEINS.
 TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN ION CHANNEL PROTEINS
 TITLE OF INVENTION: AND USES THEREOF
 FILE REFERENCE: CLO000163
 CUMULATIVE PRIORITY:

```

CURRENT APPLICATION NUMBER: US/60/169,841
CURRENT FILING DATE: 1999-12-09
NUMBER OF SEQ ID NOS: 2910
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1172

```

TYPE: DNA
ORGANISM: Human
JUS-60-169-841-1172

Query Match	100.0%	Score 51;	DB 72;	Length 569;
Best Local Similarity	100.0%	Pred. No. 0.14;		
Matches	51;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0

1 GAGGATGAAGCTGAAAGCAGAGGAAGCAGAGGAGAAAGTGT 51
24 GAGGATGAAGCTGAAAGCAGAGGAAGCAGAGGAGAAAGTGT 74

RESULT 12
US-60-169-842-2193
Sequence 2193, Application US/60169842

```

: GENERAL INFORMATION:
: APPLICANT: Vivien
: TITLE OF INVENTION: ISOLATED HUMAN GPCR PROTEIN, NUCLEIC
: TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN GPCR PROTEINS AND USES THEREOF
: FILE REFERENCE: CL000162

```

```

; CURRENT APPLICATION NUMBER: US/60/169,842
;
; CURRENT FILING DATE: 1999-12-09
;
; NUMBER OF SEQ ID NOS: 5232
;
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 2193

```

ORGANISM: Human
US-60-169-842-2193

Query Match	100.0%;	Score 51;	DB 72;	Length 569;
Best Local Similarity	100.0%;	Pred. No. 0.14;		
Matches 51; Conservative	0;	Mismatches	0;	Indels

Dy 1 GAGGATGAACCTGAAGAGAGAAGAGAGAGAGAGAAAGTGT 51
|||
Dd |||
24 GAGGATGAACCTGAAGAGAGAAGAGAGAGAGAGAGAAAGTGT 74

RESULT 13
US-60-169-867-3351
; Sequence 3351, Application US/60169867
; GENERAL INFORMATION

APPLICANT : Bonazzi, Vivien
TITLE OF INVENTION: ISOLATED HUMAN DRUG TARGET PROTEINS,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN DRUG TARGET PROTEINS
TITLE OF INVENTION: AND USES THEREOF

```

: CURRENT APPLICATION NUMBER: US/60/169,867
: CURRENT FILING DATE: 1999-12-09
: NUMBER OF SEQ ID NOS: 8230

```

```

      ; SEQUENCE ID NO 3351
      ; LENGTH: 569
      TYPE: DNA

```

ORGANISM: Human
US-60-169-867-3351

Query Match	100.0%;	Score 51;	DB 72;	Length 569;
Best Local Similarity	100.0%;	Pred. No. 0.14;		
Matches 51; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0

[illegible]

RESULT 14
US-09-422-985-3
; Sequence 3, Application US/09422985
(GENERAL INFORMATION)

APPLICANT:	Snagir, Amir
APPLICANT:	Heinonen, Paula
APPLICANT:	Alhopuro, Pia
APPLICANT:	Karvonen, Matti

APPLICANT: Koulu, Markku
APPLICANT: Pesonen, Ullamari
APPLICANT: Scheinin, Mika
APPLICANT: Salonen, Talle M

APPLICANT: Tuomainen, Tomi-Pekka
APPLICANT: Lakka, Timo A
APPLICANT: Nyys"nen, Kristiina
APPLICANT: Salonen, Riitta

APPLICANT: Valkonen, Veli-Pekka
TITLE OF INVENTION: A DNA molecule encoding a variant alpha-2B-adrenoceptor
TITLE OF INVENTION: protein, and uses thereof
FILE REFERENCE: Alpha-2B-AR variant

CURRENT APPLICATION NUMBER: US/09/422,985
CURRENT FILING DATE: 1999-10-22
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 1353
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(1350)
OTHER INFORMATION: Coding sequence for human alpha-2B-adrenoceptor
OTHER INFORMATION: protein
US-09-422-985-3

Query Match 100.0%; Score 51; DB 20; Length 1353;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 51
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DB 880 GAGGATGAAGCTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 930

RESULT 15

US-09-692-077B-1
Sequence 1, Application US/09692077B
GENERAL INFORMATION:
APPLICANT: Liggett, Stephen
TITLE OF INVENTION: Alpha-2B-adrenergic receptor polymorphisms
FILE REFERENCE: Sequences 1-22
CURRENT APPLICATION NUMBER: US/09/692,077B
CURRENT FILING DATE: 2000-10-19
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 1353
TYPE: DNA
ORGANISM: Homo sapiens
US-09-692-077B-1

Query Match 100.0%; Score 51; DB 29; Length 1353;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 51
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DB 880 GAGGATGAAGCTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGT 930

Search completed: March 2, 2004, 11:49:23
Job time : 2893 secs

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CURRENT FILING DATE: 2003-08-18
PRIORITY APPLICATION NUMBER: US/09/957,956
PRIOR FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: US 60/234,422
PRIOR FILING DATE: 2001-09-21
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1.1
SEQ ID NO 6
LENGTH: 45980
TYPE: DNA
ORGANISM: Homo sapiens
US-10-642-946-6

Query Match      73.3%   Score 37.4; DB 6; Length 45980;
Best Local Similarity 87.2%; Pred.No. 0.033;
Matches 41; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY          1  GAGGATGAAGCTGTAAGACGAGAAGAGGAGGAGGAGGAGGAGGA 47
Db          3845 GAGCAAGAAAGAAAGAGAGGAGGAGGAGGAGGAGGAGGAGGA 3891

RESULT 8
PCT-US03-32805-1
Sequence 1, Application PC/TUS0332805
GENERAL INFORMATION:
APPLICANT: decode genetics ehf.
APPLICANT: Heigadottir, Anna
APPLICANT: Guicher, Jeffrey R.
APPLICANT: Manolescu, Andrei
TITLE OR INVENTION: Susceptibility Gene for Myocardial
TITLE OF INVENTION: Infarction
FILE REFERENCE: 2345.2048002
CURRENT APPLICATION NUMBER: PCT/US03/32805
CURRENT FILING DATE: 2003-10-16
PRIOR APPLICATION NUMBER: 60/419,432
PRIOR FILING DATE: 2002-10-17
NUMBER OF SEQ ID NOS: 535
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 398800
TYPE: DNA
ORGANISM: homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (70677)...(70776)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (154988)...(155087)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: 248521
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (269591)...(270091)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (272544)...(272643)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (279545)...(279644)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (300892)...(300991)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
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; OTHER INFORMATION: n = A,T,C or G
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NAME/KEY: misc_feature
LOCATION: (332849)...(332948)
OTHER INFORMATION: n = A,T,C or G
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NAME/KEY: misc_feature
LOCATION: (341698)...(341698)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (345190)...(345289)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (350504)...(350603)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (391524)...(391623)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (396625)...(396724)
OTHER INFORMATION: n = A,T,C or G
PCT-US03-32805-1

Query Match          73.3%: Score 37.4; DB 1; Length 398800;
Best Local Similarity 87.2%; Pred. No. 0.038; Indels 0; Gaps 0;
Matches 41; Conservative 0; Mismatches 6;

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        |||||
OY      1 GAGGATGAAGCTGAAGAAGAGAGAGAGAGAGAGAGAGAGA 47
        |||||

US-10-417-375A-1
Sequence 1, Application US/10417375A
GENERAL INFORMATION:
APPLICANT: David W. Morris
TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
FILE REFERENCE: 529452001600
CURRENT APPLICATION NUMBER: US/10/417,375A
CURRENT FILING DATE: 2003-04-15
NUMBER OF SEQ ID NOS: 176
SOFTWARE: FastSeq For Windows Version 4.0
SEQ ID NO 1
LENGTH: 310122
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(310122)
OTHER INFORMATION: n = A,T,C or G
US-10-417-375A-1

Query Match          72.9%: Score 37.2; DB 6; Length 310122;
Best Local Similarity 84.0%; Pred. No. 0.042; Indels 0; Gaps 0;
Matches 42; Conservative 0; Mismatches 8;

Db      256497 GAAGAGAAGTGAAGAAGAGAGAGAGAGAGAGAGAGAGAG 50
        |||||
OY      1 GAGGATGAAGCTGAAGAAGAGAGAGAGAGAGAGAGAGAGA 50
        |||||

US-10-767-701-24209
Sequence 24209, Application US/10767701
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
```

SEQ ID: 264
LENGTH: 264

TYPE: DNA
ORGANISM: *Sorghum bicolor*

FEATURE: CLONE
OTHER INFORMATION: 34209

US-10-767-701-2	Score 50.0.032	7	Indels
72.2%	Pred. No.	0.032	
95.4%	Matches		

[illegible][illegible]

QY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

db
db

RESULT 11
471-10555
Classification US/10767471

US-10-76742, Application
Sequence 10555, Applicant
MICHELE ET AL.
MORPHISMS ASSOCIATED WITH
METHODS OF DETECTING

GENERAL APPLICANT: CARGILL,
GENETIC BOWLING, INC.
APPLICANT OF INVENTION:
RHEUMATOID ARTHRITIS,

TITLE OF INVENTION: 5505
TITLE OF INVENTION: US/10/767,471
REFERENCE: 10/767,471
PUBLICATION NUMBER: 10/767,471

FILE NO.: 2004-01-30
CURRENT APPLICATION NO.:
CURRENT FILING DATE: 50231
CURRENT FILING NO.: Version 4.0

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CURRENT OF SEQ ID IN: Windows
NUMBER OF fastseq for Windows
SOFTWARE:

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SOFTW: 10555
SEQ ID NO
LENGTH: 34304

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LENGTH: 1440
TYPE: DNA
ORGANISM: Homo sapiens

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; ORIGIN:
FEATURE: misc_feature
NAME/KEY: misc_(34304)
; C or G, or insertion/deletion

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LOCATION: (1) ...
LOCATION: n = A,1,C ...
OTHER INFORMATION:
DB 6; length

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	72.2%;	No. 0.046;	
	Pred.	7;	
	atches		

Query Match	Similarity	85.4%	0;	Mismatch
local	conservative			

41; CCGATTGAACTGAAGACGAGAAGACGG
Bebe CCGATTGAACTGAAGACGAGAAGACGG
Matches

[illegible]

9950 Grove -
db

REF ID: A66179

US-10-417-375A-12
RECORDED
SEQUENCE 79, Application of
INFORMATION:

GENERAL INFORMATION: David W. Morris
APPLICANT: Marc Malandro
Therapeutic Targets in Cancer

APPLICANT: NOV 1979
TITLE OF INVENTION: US/10/417,375A
REFERENCE: 529452001600

FILE REFERENCE NUMBER: 2003-04-15
CURRENT APPLICATION DATE: 176
SITTING DATE: 4.0

CURRENT FILE NO: 170
CURRENT SEQ ID NOS:
NUMBER OF SEQ FOR
PARTSEQ

SOFTWARE: FACS
SEQ ID NO 79
EA303

LENGTH: 510
TYPE: DNA
MUS musculub

ORGANISM
HIS-10-417-375A-79



Page 4

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 05:30:03 ; Search time 2156 Seconds

(without alignments)
706.387 Million cell updates/sec

Title: US-09-692-077d-1_copy_880_930

Perfect score: 51
Sequence: 1 gagagatgaagctgaagaga.....aggagagagagagagatgct 51

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

EST:
1: em_estrba:*
2: em_estrhum:*
3: em_estrin:*
4: em_estrmu:*
5: em_estrvo:*
6: em_estrpl:*
7: em_estro:*
8: em_hrc:*
9: gb_estr1:*
10: gb_estr2:*
11: gb_hrc:*
12: gb_estr3:*
13: gb_estr4:*
14: gb_estr5:*
15: em_estrin:*
16: em_estrcom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rtd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	1353	29	AY416856 Homo sapi
2	42	82.4	872	29	AL606560 Horse alp
3	41.6	81.6	430	28	AZ223727 RPT-23-6
4	41.6	81.6	469	9	AA943361 EST198860

C	5	41.6	81.6	517	10	BE097734
C	6	41.6	81.6	552	14	CF795582
C	7	41.6	81.6	604	9	AJ517718
C	8	41.6	81.6	713	28	AZ288043
C	9	40.6	79.6	640	12	BI067787
C	10	40.6	79.6	668	28	BH309086
C	11	40.6	79.6	723	13	BUI21352
C	12	40.6	79.6	753	13	BE613618
C	13	40.6	79.6	797	28	AQ875889
C	14	40.6	79.6	826	28	BZ227940
C	15	40.6	79.6	873	13	BQ231724
C	16	40.6	79.6	1362	12	BM807097
C	17	40.4	79.2	453	10	BB852469
C	18	40.4	79.2	553	13	BX519271
C	19	40.4	79.2	766	28	AZ208950
C	20	40.4	79.2	799	28	BZ152227
C	21	40.4	79.2	834	28	BZ249816
C	22	40	78.4	152	28	BH108383
C	23	40	78.4	167	28	BH072396
C	24	40	78.4	256	14	CA315228
C	25	40	78.4	330	14	CF897938
C	26	40	78.4	331	9	AL135731
C	27	40	78.4	358	14	CD564037
C	28	40	78.4	365	13	BY054209
C	29	40	78.4	365	13	BY168255
C	30	40	78.4	373	14	CA538239
C	31	40	78.4	388	13	BY135560
C	32	40	78.4	413	28	BZ105773
C	33	40	78.4	444	13	BQ558077
C	34	40	78.4	446	10	BG076252
C	35	40	78.4	459	28	AZ554793
C	36	40	78.4	476	10	BB851808
C	37	40	78.4	512	14	CB272922
C	38	40	78.4	514	28	BZ089457
C	39	40	78.4	517	14	CB716103
C	40	40	78.4	558	28	BZ159900
C	41	40	78.4	578	14	CA752540
C	42	40	78.4	586	9	AI451753
C	43	40	78.4	587	12	BG325179
C	44	40	78.4	594	14	CF796838
C	45	40	78.4	612	28	BZ149404

ALIGNMENTS

RESULT 1
LOCUS: AY416856
DEFINITION: Homo sapiens HCM6030 gene, VIRUAL TRANSCRIPT, partial sequence.
ACCESSION: AY416856
VERSION: AY416856.1 GI:39772816
KEYWORDS: GSS.
SOURCE: Homo sapiens (human)
ORGANISM: Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE: 1 (bases 1 to 1353)
AUTHORS: Clark, A.G., Gianowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civiello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.
TITLE: Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios
JOURNAL: Science 302 (5652), 1960-1963 (2003)
PUBMED: 14671302
REFERENCE: 2 (bases 1 to 1353)
AUTHORS: Clark, A.G., Gianowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civiello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.
TITLE: Direct Submission

JOURNAL

Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
This sequence was made by sequencing genomic exons and ordering
them based on alignment.

FEATURES
Source Location/Qualifiers
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gene
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/locus_tag="HGM6030"

ORIGIN

Query Match 100.0%; Score 51; DB 29; Length 1353;
Best Local Similarity 100.0%; Pred. No. 0.7;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGGATGAACTGTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 51
Db 880 GAGGATGAACTGTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 930

RESULT 2

ECOA2BAR
LOCUS
DEFINITION
Horse alpha2 adrenergic receptor gene fragment probably subtype D.

ACCESSION
AL606560.1 GI:15591917
VERSION
GSS: Alpha2 adrenergic receptor gene.
KEYWORDS
Equus caballus (horse)
SOURCE
Equus caballus

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Perissodactyla; Equidae; Equus.

REFERENCE
1 (bases 1 to 872)
Hunter, C. and Elgar, G.
Alpha2 adrenergic receptor gene
Unpublished
2 (bases 1 to 872)
Hunter, C.
Direct Submission
Submitted (14-SEP-2001) MRC Human Genome Mapping Project Resource
Centre Hinxton, Cambridge, CB10 1SB. UK Email:
biohelp@hmp.mrc.ac.uk

FEATURES

source
1..872
Location/Qualifiers
/organism="Equus caballus"
/mol_type="genomic DNA"
/db_xref="taxon:9796"

ORIGIN

Query Match 82.4%; Score 42; DB 29; Length 872;
Best Local Similarity 90.0%; Pred. No. 39;
Matches 45; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GAGGATGAACTGTAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 50
Db 571 GAGGATGAACTGTAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 620

RESULT 3

AZ223727
LOCUS
DEFINITION
RPCI-23-63A7.7J RPCI-23 Mus musculus genomic clone RPCI-23-63A7,
genomic survey sequence.

ACCESSION
AZ223727
VERSION
AZ223727.1 GI:8531776
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus

REFERENCE

1 (bases 1 to 430)
Mammalia; Euteleostomi; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

AUTHORS

Zhao, S., Nieman, W., Feldjany, T., Malek, J., Shatsman, S.,
Akturet, B., Levine, M., Megann, S., Tsegaye, G., Geer, K., Krol, M., de
Jong, P. and Fraser, C.M.
Mouse BAC End Sequences from Library RPCI-23
Unpublished (1999)
Other GSSs: RPCI-23-63A7.TV
Contact: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Research
7712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: szhao@igr.org

Clones are derived from the mouse BAC library RPCI-23. For BAC
library availability, please contact Pieter de Jong
(pdejong@med.buffalo.edu). Clones may be purchased from
BACPAC Resources (<http://bacpac.med.buffalo.edu/orderingframe.htm>)
or from Resea ch Genetics (http://www.rtg.org/cdb/bac_ends/mouse/bac_end_intro.html)
plate: 63 row: A column: 7
Seq primer: SP6
Class: BAC ends.

FEATURES

source
1..430
Location/Qualifiers
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="RPCI-23-63A7"
/sex="female"
/lab_host="DH10B"
/note="Organ: Kidney/Brain; Vector: pBACe3.6; Site 1:
ECORI; Site 2: ECORI; Female C57BL/6J mouse kidney and/or
brain genomic DNA was isolated and partially digested
with a combination of ECORI and ECORI Methyase. Size
selected DNA was cloned into the pBACe3.6 vector at the
ECORI sites. The ligation products were transformed into
DH10B electrocompetent cells (BRL Life Technologies)."

ORIGIN

Query Match 81.6%; Score 41.6; DB 28; Length 430;
Best Local Similarity 91.7%; Pred. No. 43;
Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GAGGATGAACTGTAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 48
Db 103 GAGGATGAACTGTAAGAGAGAGAGAGAGAGAGAGAGAGAGTGT 56

RESULT 4

AA943361
LOCUS
DEFINITION
EST198860 Normalized rat brain, Bento Soares Rattus sp. cDNA clone
RBR164.3' end, mRNA sequence.

ACCESSION
AA943361
VERSION
AA943361.1 GI:3103277
KEYWORDS
EST.
SOURCE
Rattus sp.
Rattus sp.
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE

1 (bases 1 to 469)
Lee, N.H., Glodet, A., Chandra, I., Nason, T.M., Quackenbush, J.,
Kerlavage, A.R. and Adams, M.D.
Rat Genome Project: Generation of a Rat EST (RST) Catalog & Rat
Gene Index
Unpublished (1998)
Contact: Lee, NH
The Institute for Genomic Research
9712, Medical Center Drive, Rockville, MD 20850, USA
Tel: (301)-838-3529

[illegible]

Plate: 102	row: K	column: 10
Seq primer: T7		
Class: BAC ends.		
FEATURES		
source	Location/Qualifiers	
	1..713	
	/organism="Mus musculus"	
	/mol_type="genomic DNA"	
	/strain="C57BL/6J"	
	/db_xref="taxon:10090"	
	/clone="RPCI-23-102K10"	
	/sex="Female"	
	/lab_host="DH10B"	
	/clone_lib="RPCI-23"	
	/note="Organ: Kidney/Brain; Vector: pBACe3.6; Site:1; EcoRI; Site:2: EcoRI; Female C57BL/6J mouse kidney and/or brain genomic DNA was isolated and partially digested with a combination of EcoRI and EcoRI MethyIase. Size selected DNA was cloned into the pBACe3.6 vector at the EcoRI sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies)."	
ORIGIN		
Query Match	81.6%; Score 41.6; DB 28; Length 713;	
Best Local Similarity	91.7%; Pred. No. 46;	
Matches	44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;	
Db	101 GAGGATGAACTGTAAGCGAGCGAAGAGAGAGAGAGAGAGAGAGAGG 48	
Oy	1 GAGGATGAACTGTAAGCGAGCGAAGAGAGAGAGAGAGAGAGAGAGG 48	
	101 GAGGAGGAAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGG 54	
RESULT 9		
LOCUS	B1067787	640 bp mRNA linear EST 15-JUN-2001
DEFINITION	pgfin.pk007.124 normalized chicken fat cDNA library Gallus gallus	
LOCUS	cdna clone pgfin.pk007.124 5' similar to gi 450641	
	ref NP_002874.1 Ran GTPase activating protein 1; Fugu [Homo	
	sapiens] gi 11418178 ref XP_010014.1 Ran GTPase activating protein	
	1 [Homo sapiens] sp P46060 RBP1_HUMAN RAN-GTPASE ACTIVATING PROTEIN	
	1 pit J138146 RANGAP1 - human pit/JC, mRNA sequence.	
ACCESSION	B1067787	
VERSION	B1067787.1	GI:14475309
KEYWORDS	EST.	
SOURCE	Gallus gallus (chicken)	
ORGANISM	Gallus gallus	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
	Archaeoptera; Aves; Neognathae; Galliformes; Phasianidae;	
	Phasianine; Gallus.	
	1 (bases 1 to 640)	
REFERENCE	Cogburn,L.A., Morgan,R.W. and Burnside,J.	
AUTHORS	Chicken ESTs from fat	
TITLE	Unpublished (2001)	
JOURNAL	Contact: Larry A. Cogburn	
COMMENT	University of Delaware	
	Townsend Hall, Newark, DE 19717, USA	
	Tel: 302-831-1335	
	Fax: 302-831-2822	
	Email: cogburnudel.edu, www.chickest.udel.edu.	
FEATURES	Location/Qualifiers	
source	1..640	
	/organism="Gallus gallus"	
	/mol_type="mRNA"	
	/db_xref="taxon:9031"	
	/clone="pgfin.pk007.124"	
	/sex="Male and Female"	
	/tissue_type="fat"	
	/lab_host="E.coli EMPDH10B"	
	/clone_lib="normalized chicken fat cDNA library"	
	/note="Vector: pSPORT1"	
ORIGIN		
Query Match	79.6%; Score 40.6; DB 12; Length 640;	
Best Local Similarity	91.5%; Pred. No. 71;	

[illegible]

KEYWORDS	EST.
SOURCE	Gallus gallus (chicken)
ORGANISM	Gallus gallus
REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.
AUTHORS	1 (bases 1 to 723)
TITLE	Boardman, P.E., Sans-Ezquerro, J., Overton, I.M., Burr, D.W., Bosch, E.,
JOURNAL	Fong, W.T., Tickle, C., Brown, W.R.A., Wilson, S.A. and Hubbard, S.J.
MEDLINE	A Comprehensive Collection of Chicken CDNAS
PUBMED	Curr. Biol. 12 (22), 1965-1969 (2002)
COMMENT	22335534 12445392 Contact: Simon Hubbard Department of Biomolecular Sciences University of Manchester Institute of Science and Technology (UMIST) PO Box 88, Manchester, M60 10D, UK Tel: 01612008930 Fax: 01612360409 Email: Simon.Hubbard@umist.ac.uk. Location/Qualifiers
FEATURES	1..723
SOURCE	/organism="Gallus gallus" /mol_type="mRNA" /strain="Compton Line 151" /db_xref="taxon:9031" /clone="CHEST145016" /sex="Female" /dev_stage="adult" /lab_host="DH10B" /clone_lib="CSEOCHL17" /note="Organ: Kidney + adrenal; Vector: pBluescript II KS(+); Site_1: EcoRI; Site_2: NotI; Modification of pBluescript II KS(+) [Stratagene] vector to accommodate cDNA produced with the T-primed protocol (Construction of uni-directionally cloned cDNA libraries from messenger RNA for improved 3' end DNA sequencing by Glenn Fu, et al. U.S. Patent # 6,387,624). Cut pBluescript II KS(+) with NotI and EcoRI. Ligate in double stranded adaptor containing BspI and BamHI sites [5'ggccgcgtgcagcccgatccgcgaataag] [5'atctcttttttggatccggggtcgtgacgc]"
ORIGIN	
Query Match	79.6%; Score 40.6; DB 13; Length 723;
Best Local Similarity	91.5%; Pred. No. 72;
Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;	
CY	1 GAGGATTAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGA 47
DB	648 GAAGAGAGAGATGAAAGAGAGAGAGAGAGAGAGAGAGAGAGA 694
RESULT 12	
BE613618	753 bp mRNA linear EST 20-OCT-2000
LOCUS	60150440F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906193 5',
DEFINITION	mRNA sequence.
ACCESSION	BE613618
VERSION	BE613618.1 GI:9895215
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE	1 (bases 1 to 753)
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/.
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Robert Straube, Ph.D. Email: cgabs-remail.nih.gov Tissue Procurement: ATCC

CDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: L1AM9714 row: 1 column: 02
 High quality sequence stop: 711.

FEATURES
 source
 1..753
 Location/Qualifiers

/organism="Homo sapiens"
 /mol_type="mrna"
 /db_xref="taxon:9606"
 /clone="IMAGE:3906193"
 /isue_type="leiomysarcoma"
 /lab_host="DH10B (phage-resistant)"
 /clone_1ib="NH_MGC_71"
 /note="Organ: uterus; Vector: PCMV-SPORT6; Site_1: NotI;
 Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 2.1 kb."

Query Match
 Best Local Similarity 79.6%; Score 40.6; DB 10; Length 753;
 Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

ORIGIN
 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGA 47
 27 GAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA 73

RESULT 13
 LOCUS
 DEFINITION
 A0875889 797 bp DNA linear GSS 08-NOV-1999
 VJ30F6 mtn-3xHA/lacZ insertion library, strain Y2278 Saccharomyces
 cerevisiae genomic 5', genomic survey sequence.
 A0875889
 A0875889.1 GI:62881133
 GSS.
 Saccharomyces cerevisiae (baker's yeast)
 Saccharomyces cerevisiae
 Eukaryota; Fungi; Ascomycota; Saccharomycetia; Saccharomycetes;
 Saccharomycetales; Saccharomycetaceae; Saccharomyces;
 1 (bases 1 to 797)

REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT
 Contact: Kumar A
 Michael Snyder, Dept. of Mol. Cell. and Dev. Biology
 Yale University
 P.O. Box 208103
 Tel: 203 432 9949
 Fax: 203 432 6161
 Email: amuj.kumar@yale.edu
 de of mtn-3xHA/lacZ insertion.
 Seg primer: GGCCTTCCTTCCTTGAAGTAC
 Class: transposon-tagged
 Location/Qualifiers

FEATURES
 source
 1..797
 Location/Qualifiers

/organism="Saccharomyces cerevisiae"
 /mol_type="genomic DNA"
 /strain="Y2278 - S288C background, cir(0) rho(0)"
 /db_xref="taxon:4932"
 /lab_host="E. coli"
 /clone_1ib="mtn-3xHA/lacZ insertion library, strain Y2278"
 /note="Vector: pHS6-Sal; A yeast genomic DNA library
 without 2 micron or mitochondrial DNA was prepared in
 pHS6-Sal; genomic DNA was size-fractionated (DNA of
 roughly 2-3 kb in length) prior to cloning. This library

ORIGIN

Query Match
 Best Local Similarity 79.6%; Score 40.6; DB 28; Length 797;
 Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

ORIGIN
 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGA 47
 260 GAGGATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA 306

RESULT 14
 LOCUS
 DEFINITION
 B2227940 826 bp DNA linear GSS 12-OCT-2002
 CH230-400D22.TU CHORI-230 Segment 2 Rattus norvegicus genomic clone
 B2227940
 B2227940.1 GI:23886481
 GSS.
 Rattus norvegicus (Norway rat)
 Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus;
 1 (bases 1 to 826)

REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230
 (http://www.chori.org/bacpac/rat230.htm). For BAC library
 availability, please contact Pieter de Jong (pdejong@mail.cho.org).
 Clones may be purchased from BACPAC Resources
 (http://www.chori.org/bacpac/or ering_information.htm). BAC end
 page: http://www.tigr.org/cdb/bac_ends/rat/bac_end_intro.html
 Plate: 400 row: D column: 22
 Seg primer: SP6
 Class: BAC ends.

FEATURES
 source
 1..826
 Location/Qualifiers

/organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /strain="BN/SHNSd/MCW"
 /db_xref="taxon:10116"
 /clone="CH230-400D22"
 /sex="Female"
 /cell_type="Brain"
 /clone_1ib="CHORI-230 Segment 2"
 /note="Vector: pTARBA1.3; Site 1: MboI; Site 2: MboI;
 CHORI-230 Rat (BN/SHNSd/MCW) BAC library produced by
 Pieter de Jong"

ORIGIN

Query Match
 Best Local Similarity 79.6%; Score 40.6; DB 28; Length 826;
 Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

ORIGIN
 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGA 47
 794 GAGGATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA 748

RESULT 15
 BQ231724 873 bp mRNA linear EST 02-MAY-2002
 LOCUS AGENCOURT_7560029 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6055864
 DEFINITION 5', mRNA sequence.
 ACCESSION BQ231724
 VERSION BQ231724
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homindae; Homo.
 REFERENCE 1 (bases 1 to 873)
 AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: ATCC/DCTD/DTP
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.jnl.gov>
 Plate: LLM13316 row: m column: 17
 High quality sequence stop: 703.
 Location/Qualifiers

FEATURES

1..873
 Location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6055864"
 /issue_type="melanotic melanoma"
 /lab_host="DH10B (phage-resistant)"
 /clone_1b="NIH MGC 72"
 /note="Organ: skin; Vector: pCMV-SPORT6; Site_1: NotI;
 Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
 Average insert size 2 kb. Library constructed by Life
 Technologies."

ORIGIN

Query Match 79.6%; Score 40.6; DB 13; Length 873;
 Best Local Similarity 91.5%; Pred. No. 74;
 Matches 43; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Oy 1 GAGATGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGA 47
 |||||
 Db 103 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA 149
 |||||

Search completed: March 2, 2004, 08:34:35
 Job time: 2156 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 04:47:22 ; Search time 864.5 Seconds

(without alignments)
2556.963 Million cell updates/sec

Title: US-09-692-077d-2_COPY_880_930

Perfect score: 1 gagagcagcgcgaagagga.....aggaagcgcgcgaaccag 51

Sequence: 51 gagagcagcgcgaagagga.....aggaagcgcgcgaaccag 51

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenBank:
1: gb_ba:
2: gb_hg:
3: gb_in:
4: gb_om:
5: gb_ov:
6: gb_pac:
7: gb_ph:
8: gb_pl:
9: gb_pr:
10: gb_ro:
11: gb_sce:
12: gb_sy:
13: gb_un:
14: gb_vl:
15: em_ba:
16: em_fun:
17: em_hum:
18: em_in:
19: em_mu:
20: em_om:
21: em_or:
22: em_ov:
23: em_pac:
24: em_ph:
25: em_pl:
26: em_ro:
27: em_sce:
28: em_un:
29: em_vl:
30: em_hg_hum:
31: em_hg_in:
32: em_hg_other:
33: em_hg_mus:
34: em_hg_pin:
35: em_hg_rod:
36: em_hg_mam:
37: em_hg_vtc:
38: em_sy:
39: em_hgo_hum:
40: em_hgo_mus:
41: em_hgo_other:

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	51	100.0	246	10	S6731752	S67319 alpha 2-adr
2	51	100.0	828	10	S67316	S67316 alpha 2-adr
3	51	100.0	1344	6	AX350490	AX350490 Sequence
4	51	100.0	1344	9	AF316895	AF316895 Homo sapi
5	51	100.0	22842	9	AC092603	AC092603 Homo sapi
6	46.2	90.6	1168	4	PVT251176	PVT251176 Phoca vit
7	43	84.3	1180	4	LPAS05821	LPAS05821 Lama paco
8	43	84.3	1197	4	LPAS15941	LPAS15941 Lama paco
9	41.8	82.0	6904	6	AX344976	AX344976 Sequence
10	41.8	82.0	6904	6	AX348497	AX348497 Sequence
11	41.6	81.6	885	9	HUMAD2C2	HUMAD2C2 Human alpha
12	41.6	81.6	1030	9	HSB325747	HSB325747 Homo sapi
13	41.6	81.6	1353	6	AX350489	AX350489 Sequence
14	41.6	81.6	2072	6	AR270618	AR270618 Sequence
15	41.6	81.6	2072	6	HUMADRA2RA	HUMADRA2RA Human alpha
16	41.6	81.6	3374	6	AX548756	AX548756 Sequence
17	41.6	81.6	9944	9	AF005990	AF005990 Homo sapi
18	41.4	81.2	1180	9	NC0251186	NC0251186 Hyleicebu
19	41.4	81.2	1218	10	TTA427262	TTA427262 Thomomys
20	39.8	78.0	1179	10	TPA427266	TPA427266 Trichys f
21	38.8	76.1	1347	10	AF332049	AF332049 Mus muscu
22	38.8	76.1	1347	10	AF332050	AF332050 Mus muscu
23	38.8	76.1	1650	10	MUSADRENH	MUSADRENH Mus muscu
24	38.8	76.1	2319	10	RATADBR	RATADBR Rattus sp.
25	38.8	76.1	6268	10	AF366899	AF366899 Rattus no
26	38.8	76.1	9377	10	MUSADRECA	MUSADRECA Mus muscu
27	38.8	76.1	83802	10	AL731836	AL731836 Mouse DNA
28	38.8	76.1	124474	2	AC126878	AC126878 Rattus no
29	38.8	76.1	261258	2	AC091365	AC091365 Rattus no
30	38.8	76.1	276543	2	AC112850	AC112850 Rattus no
31	38.4	75.3	1639	10	RNADBARA	RNADBARA Rattus no
32	38.2	74.9	1173	4	EAT419810	EAT419810 Rattus no
33	38.2	74.9	1180	10	CRO271336	CRO271336 Rattus no
34	38.2	74.9	1188	4	RTU419814	RTU419814 Rattus no
35	38.2	74.9	1198	4	ECAR2B	ECAR2B Rattus no
36	38.2	74.9	1356	4	AY150333	AY150333 Tupala de
37	37.2	72.9	194614	2	AC113944	AC113944 Mus muscu
38	37	72.5	301817	2	AC095571	AC095571 Rattus no
39	36.6	71.8	1180	4	HAM251178	HAM251178 Hippopota
40	36.6	71.8	1185	10	EPD427270	EPD427270 Erethizon
41	36.6	71.8	1185	10	ASP427259	ASP427259 Anomaluru
42	36.6	71.8	1203	4	TTE315939	TTE315939 Tapirus t
43	36.4	71.4	1547	10	AY341886	AY341886 Rattus no
44	36.4	71.4	143350	2	AC121509	AC121509 Mus muscu
45	36.4	71.4	241678	2	AC121484	AC121484 Rattus no

ALIGNMENTS

RESULT 1
S6731752
LOCUS S6731752 246 bp mRNA ROD 26-FEB-1994
DEFINITION alpha 2-adrenergic receptor [rats, Sprague-Dawley, 5 month old
pancreas, mRNA Partial, 246 nt, segment 2 of 2].
ACCESSION S67319
VERSION S67319.1 GI:456951
KEYWORDS
SEGMENT 2 of 2
SOURCE Rattus sp.
ORGANISM Rattus sp.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (baaes 1 to 246)

0; Indels 0; Gaps 0;

gears

ADRA2B mRNA

```

CDS
    1..1344
        /gene="ADRA2B"
        /note="G-protein coupled receptor"
        /codon_start=1
        /product="alpha 2B adrenergic receptor"
        /protein_id="AAK01635.1"
        /db_xref="GI:12698670"
        /translation="MDHDDPYSVQVTAIAAATFLLPTFGNALVLVAITRSRLR
APQULFLYSLAADIILVATLTIPLPSLANELLGYFRFTTVEVALVDLECTSIYH
LCALISLDRIWAVSRDLERNNSKRTPRRKICIIILTWLIAVLSLPILYKGQGQPR
KOPPKDGLAWAYLIASISIGSFPAKLIVLYLRILYLAKSNSRPGAKPGQGES
RKPPIPDGALASANKLPAIASVASAREVNGHSKSTGESEETPEDTRALPSSMAA
LPNCGOOGKEGVCSGPDEDAEEREEBECECPQAVPPASPACSPILQCGSRVLR
TLRGQVILGRGVAGIIGCGMWRRAQLTREKRTVLAVITCVPLCCPFPPFSYLG
ICPHCKVPHELFPFFPWIGYCNSLNINVIYITFNODRRARFRILCRPTQTAM"
            891 892
        /gene="ADRA2B"
        /note="compared to wild type sequence presented in GenBank
Accession Number AF005900; polymorphic sequence lacks
three glu residues at this location"
        /frequency="Caucasians 0.31; African-Americans 0.12"
        /replace="gaagaagagag"

ORIGIN
Query Match      100.0%; Score 51; DB 9; Length 1344;
Beet Local Similarity 100.0%; Pred. No. 7e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy          1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAAGAGTGTGAACCCAG 51
           |||
Db          880 GAGATGAAGCTGAAGAGAGAGAGAGAGAAGAGTGTGAACCCAG 930

RESULT 5
LOCUS       AC092603              22842 bp     DNA             linear      PRI 01-MAR-2002
DEFINITION Homo sapiens BAC clone RP11-139J6 from 2, complete sequence.
VERSION     AC092603 AC073396
KEYWORDS    AC092603.2 GI:16303539
SOURCE      HTG.
ORGANISM    Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrate; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE   1 (bases 1 to 22842)
AUTHORS     Sulston,J.E. and Waterston,R.
TITLE       Toward a complete human genome sequence
JOURNAL     Genome Res. 8 (11), 1097-1108 (1998)
MEDLINE     99063792
PUBMED      9847074
REFERENCE   2 (bases 1 to 22842)
AUTHORS     Matlinka,S., Abbott,A., Hawkins,M., Elliott,G. and Doeberer,A.
TITLE       The sequence of Homo sapiens BAC clone RP11-139J6
JOURNAL     Unpublished (2001)
REFERENCE   3 (bases 1 to 22842)
AUTHORS     Waterston,R.H.
TITLE       Direct Submissions
JOURNAL     Submitted (19-JUL-2001) Genome Sequencing Center, Washington
UNIVERSITY School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE   4 (bases 1 to 22842)
AUTHORS     Waterston,R.H.
TITLE       Direct Submissions
JOURNAL     Submitted (20-OCT-2001) Genome Sequencing Center, Washington
UNIVERSITY School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE   5 (bases 1 to 22842)
AUTHORS     Waterston,R.H.
TITLE       Direct Submissions
JOURNAL     Submitted (23-OCT-2001) Genome Sequencing Center, Washington
UNIVERSITY School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE   6 (bases 1 to 22842)

```

AUTHORS Waterston, R.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-2002) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
COMMENT On Oct 20, 2001 this sequence version replaced gr:14916188.

Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: <http://genome.wustl.edu/gsc>
Contact: saplen@wustl.edu

Summary Statistics
Center project name: H_NH013906
Drafting Center: WIBR

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality > 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
The RPci-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Moon, P.Y., Zhao, B., Frengen, E., Tatoro, M., Caranese, J.J. and de Jong, P.J. (1988). An improved approach for construction of bacterial artificial chromosome libraries. *Genomics* 5:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.Chori.org>
PICTOR: pbace3.6

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-401C13, 2000 bp overlap;
the clone sequenced to the right is RP11-574O17, 2000 bp overlap.
Actual end of this clone is at base position 48899 of RP11-574O17.

Polymorphisms have been identified between AC013272 and AC092603.

The sequence of AC073396 has been incorporated into AC092603.

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1377. .1424
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1424. .1449
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1495. .1665
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1669. .1966
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2812. .2918
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misc_feature        /note="match to EST AA836522 (NID:g2910841) cd22d08.s1"
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Beet Local Similarity 100.0%; Pred. No. 6.3e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      1 GAGGATGAACGTGAAGAAGAGAGAGAGAGAGAGAAAGTGTGAACCCCG 51
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Db       14451 GAGGATGAAGCTGAAGAAGAGAGAGAGAGAGAGAAAGTGTGAACCCCG 14401

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						Gaps
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RESULT 6	PV1251176	1168 bp	DNA	linear	MMM 01-JUN-2001	
LOCUS	Phoca vitulina partial aar2B gene for alpha adrenergic receptor 2B					
VERSION	AJ251176					
DEFINITION	AJ251176.1 GI:11322419					
ACCESSION	aar2B gene; alpha adrenergic receptor 2B.					
KEYWORDS	Phoca vitulina (harbor seal)					
SOURCE	Phoca vitulina					
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Pinnipedia; Phocidae; Phoca.					
REFERENCE	1 Madsen O., Seally, M., Donady, C.J., Kao, D.J., Debry, R.W., Adkins, R., Amrine, H.M., Stanhope, M.J., de Jong, W.W. and Springer, M.S. Parallel adaptive radiations in two major clades of placental mammals					
AUTHORS	Nature 409 (5820), 610-614 (2001)					
TITLE	JOURNAL MEDLINE					
JOURNAL	21082081					
PUBMED	11214318					
REFERENCE	2 (bases 1 to 1168)					
AUTHORS	Madsen, O.					
TITLE	Direct Submission					
JOURNAL	Submitted (18-NOV-1999) Madsen O., Department of Biochemistry, University of Nijmegen, P.O. box 9101, 6500 HB Nijmegen, Netherlands					

FEATURES	source	Location/Qualifiers
gene	CDS	<p>1..1168</p> <p>/organism="Phoca vitulina"</p> <p>/mol_type="genomic DNA"</p> <p>/db_xref="taxon:9720"</p> <p>1..1168</p> <p>/gene="aar2B"</p> <p><1..>1168</p> <p>/gene="aar2B"</p> <p>/codon_start=2</p> <p>/product="alpha adrennergic receptor 2B"</p> <p>/protein_id="CAC16696.1"</p> <p>/db_xref="GI:11322420"</p> <p>/db_xref="GOA:O9GL07"</p> <p>/db_xref="SPTRMBL:O9GL07"</p> <p>/translation="NAIAAVTFLILFTLGNALVILAVLTSKSLAPONFLVSLAAADIVATLTIPPSLANELDLGWYFRRTWCYVALDLVLTCTSIYHLCAISLDRTVAWSBALRNSKRTFRRKICITLTVMLIAAVISLPELIYKGGQPGAPGCKTNDQAWAVT LASSISGFAPACILIMILVLRILYLAKRSHRGPGAKGPGGSGKDPKRSVPTSTSK LPTLALSLASBEANGSKPTGSEKGGTPEDDPCTPALPSPSWALSSGSGSGEAGVCGAS LPEEAASEESEECEEPKALPASPACSPPLPOPGSRVYATLRGQVLLGRGVGAS GQWRRRAQQLTRERFTVLAVAVIGVPLICMPPFFTSYSLATIDCHCKVPHGFLF"</p>

Query Match	90.6%	Score 46.2	DB 4	Length 1168
Best Local Similarity	94.1%	Pred. No. 0.0017		
Matches 48	Conservative 0	Mismatches 3	Indels 0	Gaps 0

1	GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGTGTGAACCCG	51

Db	833	GAGGAGGAAGCTGAAAGAGGAGAGGAGAGGAGGAAGAAGTGTGAGCCTCAG	883
RESULT 7	LPA505821	1180 bp DNA linear MAM 12-DEC-2002	
LOCUS	LPA505821		
DEFINITION	Lama pacos partial adra2b gene for alpha 2B adrennergic receptor,		
ACCESSION	AJ505821		
VERSION	AJ505821.1 GI:22324219		
KEYWORDS	adra2b gene; alpha 2B adrennergic receptor.		
SOURCE	Lama pacos (alpaca)		
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Tylopoda; Camelidae; Lama.		
REFERENCE	Madsen,O., Willmesen,D., Ursing,B.M., Arnason,U. and de Jong,W.W. 1 Molecular evolution of the mammalian alpha 2B adrennergic receptor Mol. Biol. Evol. 19 (12), 2150-2160 (2002)		
REFERENCE	MEDLINE 22337198 12446807		
REFERENCE	Madsen,O., Willmesen,D., Ursing,B.M., Arnason,U. and de Jong,W.W. 1 Molecular evolution of the alpha 2B adrennergic receptor Unpublished 3 (bases 1 to 1180) Madsen,O. Direct Submission Submitted (14-AUG-2002) Madsen O., 161 Biochemistry NMI, University of Nijmegen, PO BOX 9101, 6500HB Nijmegen, NETHERLANDS		
JOURNAL	Location/Qualifiers		
FEATURES	Source		
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Beat Local Similarity	90.2%; Pred. No. 0.014;		
Matches	46; Conservative 0; Mismatches 5; Indels 0; Gaps 0;		
Oy	1 GAGATGAAGCTGAAGAGGAGGAGGAGGAGGAAGAAGTGTGAACCCAG	51	
Db	845	GAGAGGAGCGCTGCAGAGAGGAGGAGGAGGAAGAGTGTCGAGCCTCAG	895
RESULT 8	LPA315941	1197 bp DNA linear MAM 22-MAY-2002	
LOCUS	LPA315941		
DEFINITION	Lama pacos partial adra2b gene for alpha 2B adrennergic receptor.		
ACCESSION	AJ15941		
VERSION	AJ15941.1 GI:21212927		
KEYWORDS	adra2b gene; alpaca 2B adrennergic receptor.		
SOURCE	Lama pacos (alpaca)		

ORGANISM	REFERENCE	TITLE	JOURNAL	MEDLINE	PUBMED	REFERENCE	AUTHORS	FEATURES	source
Lama pacos	1	Murphy, W. J., Elzirik, E., O'Brien, S. J., Madsen, O., Scally, M., Donady, C. J., Teeling, E., Ryder, O. A., Stanhope, M. J., de Jong, W. W. and Springer, M. S.	Journal of Molecular Evolution	55(5):2348-2351 (2001)	11743200	2 (bases 1 to 1197)	Madsen, O.	Direct Submission	Submitted (14-AUG-2001) Madsen O., 161 Biochemistry NW1, University of Nijmegen, P.O. Box 9101, 6500 HB Nijmegen, NETHERLANDS
gene	1	1197	Location/Qualifiers	1197	1197	1197	1197	1197	1197
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[illegible]

REFERENCE
1 Olek, A., Piepenbrock, C. and Berlin, K.
AUTHORS
Diagnosis of behavioural disorders, neurological disorders and
TITLE
cancer
JOURNAL
Patent: WO 0202809-A 5 10-JAN-2002;
Epigenomics AG (DE)
source Location/Qualifiers
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ACCESSION	Human alpha-2 adrenergic receptor	(ADRA2C)	gene, partial	cds.
VERSION	M38742.1	GI:177867		
KEYWORDS	alpha-2 adrenergic receptor.			
SOURCE	Human sapiens (human)			
ORGANISM	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria;			
	Primates; Catarrhini; Hominoidea; Homo.			
REFERENCE	1 (bases 1 to 885)			
AUTHORS	Chang, A.C., Ho, T.F. and Chang, N.C.			
TITLE	In vitro amplification by polymerase chain reaction of a partial alpha-2 adrenergic receptor in			
	gene encoding the third subtype of alpha-2			

JOURNAL	Biochem. Biophys. Res. Commun.
LINE	91054503
MEDLINE	2173582
PUBMED	Original source text: Human adult neuroblastoma DNA, clone PCRA2.
COMMENT	Draft entry and computer-readable sequence for [unpublished (1990)]

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REFERENCE AUTHORS	TITLE	JOURNAL MEDLINE PUBMED
Bukaryoča, Mesterial; Primates; Cate...	Mammalia; Eutheria; Primates; Cate...	22131767
1 (bases 1 to 10330)		12136098
Kusemko, A.S., Gazizullin, R.Z., Al-Amin, A.N., Wang, F., Khasha, S.M., Podolski, R.M., Melnichuk, Y.G., Ganchandani, A., Kashtuba, V.I., Potapov, V.G., Koltchanov, N.A., Protopopov, A.I., and Zhabavsky, E.R.	Levitsky, V.G., Maeser, W., Walstedt, C., and Zhabavsky, E.R.	2 (bases 1 to 10330)
2 (bases 1 to 10330)		12136098
Zhabavsky, E.R.		2 (bases 1 to 10330)
Direct Submission		12136098
Submitted (16-MAY-2001)		12136098
Microbiology and Tumorigenology Centre, Karolinska Institute, Thorells väg, 3, Box 280, Stockholm 171 77, Sweden		12136098

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Matches 44;  Conservative

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DB 187 GAAGAGAGAGAGAGAGAGAGAGAGAGAGAAAGTGTGAACCCCGAG 140

RESULT 13
AX350489
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DEFINITION Sequence 1 from Patent WO0179561.
ACCESSION AX350489
VERSION AX350489.1 GI:18616091
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 liggett,S.B. and Small,K.M.
AUTHORS Mammalia; Eutheria; Primates; Carnivora; Hominidae; Homo.
TITLE Alpha-2 adrenergic receptor polymorphisms
JOURNAL Patent: WO 0179561-A 1 25-OCT-2001;
Ligett, Stephen B. (US) ; Small, Kersten M. (US)
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DB 892 GAAGAGAGAGAGAGAGAGAGAGAGAGAGAAAGTGTGAACCCCGAG 939

RESULT 14
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DEFINITION Sequence 1181 from patent US 6500938.
ACCESSION AR270618
VERSION AR270618.1 GI:29701852
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 2072)
AUTHORS Au-Young,J. and Seilhamer,J.J.
TITLE Composition for the detection of signaling pathway gene expression
JOURNAL Patent: US 6500938-A 1181 31-DEC-2002;
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Best Local Similarity 91.7%; Pred. No. 0.035;
Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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DB 1304 GAAGAGAGAGAGAGAGAGAGAGAGAGAGAAAGTGTGAACCCCGAG 1351

RESULT 15
HUMADRA2RA
LOCUS HUMADRA2RA 2072 bp DNA linear PRI 30-OCT-1994
DEFINITION Human alpha-2-adrenergic receptor (alpha-2 c2) gene, complete cds.
ACCESSION M34041
VERSION M34041.1 GI:178197
KEYWORDS alpha-2-adrenergic receptor; plasma membrane protein;

SOURCE receptor-coupled G protein.
ORGANISM Homo sapiens (human)
REFERENCE 1 (bases 1 to 2072)
AUTHORS Lomasney,J.W., Lorenz,W., Allen,L.F., King,K., Regan,J.W.,
TITLE Yang-Feng,T.L., Caron,M.G. and Lefkowitz,R.J.
JOURNAL Expansion of the alpha 2-adrenergic receptor family: cloning and
MEDLINE characterization of a human alpha 2-adrenergic receptor subtype,
90311349 the gene for which is located on chromosome 2
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 87 (13), 5094-5098 (1990)
PUBMED 2164221
COMMENT Original source text: Human placenta DNA, clone alpha-2 C2.
Draft entry and computer-readable sequence for [1] kindly submitted
by J.W.Lomasney, 03-MAY-1990, for release after publication.

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ORIGIN Chromosome 2.
Query Match 81.6%; Score 41.6; DB 9; Length 2072;
Best Local Similarity 91.7%; Pred. No. 0.035;
Matches 44; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 GATGAAGCTGAAGAGAGAGAGAGAGAGAAAGTGTGAACCCCGAG 51
DB 1304 GAAGAGAGAGAGAGAGAGAGAGAGAGAGAAAGTGTGAACCCCGAG 1351

Search completed: March 2, 2004, 06:08:06
Job time : 865.5 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using SW model

Run on: March 2, 2004, 04:46:17; Search time 267.5 Seconds
(without alignment)

809.937 Million cell updates/sec

Title: US-09-692-077d-2_COPY_880_930

Perfect score: 51 gagagatgaagctgaagagga.....aggaagagctggaaccacag 51

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3373663 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database: N_Geneseq_28Jan04:*

1: Geneseq19808:*\n2: Geneseq19908:*\n3: Geneseq20008:*\n4: Geneseq20018:*\n5: Geneseq20028:*\n6: Geneseq20038:*\n7: Geneseq20048:*\n8: Geneseq20058:*\n9: Geneseq20068:*\n10: Geneseq20078:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	51	100.0	828	9	ADB59041 Toxicity-
2	51	100.0	1344	4	AA199906 Human aip
3	47.8	93.7	1344	5	AA04761 Human aip
4	47.8	93.7	1344	5	AA044388 Human aip
5	41.8	82.0	6904	6	AB132074 Human lmm
6	41.8	82.0	6904	6	AA028364 Human che
7	41.6	81.6	1353	4	AA199905 Human aip
8	41.6	81.6	1353	5	AA04762 Human aip
9	41.6	81.6	1353	5	AA044389 Human aip
10	41.6	81.6	2064	2	AA014151 Human aip
11	41.6	81.6	2064	2	AA159499 Human aip
12	41.6	81.6	2072	7	ACA56583 Human aip
13	41.6	81.6	3274	4	AB242624 Human aip
14	36.6	71.8	593	4	AA06932 3' end of
15	36	70.6	2367	7	ABR20256 Aspergill
16	36	70.6	2367	7	ABR20854 Aspergill
17	36	70.6	4238	7	ABT17846 Aspergill
18	36	70.6	4367	7	ABT19660 Aspergill
19	35	66.6	1429	3	AA054146 Arabidops
20	35	66.6	1820	3	AA088817 Human sur
21	34.4	67.5	392	6	ABN76609 Human ORF
22	34.4	67.5	5000	2	AAV25477 Rat sulph
23	34.4	67.5	5000	7	ABT1889 Toxicity

C	24	34.4	67.5	6628	9	ADBS8175	Adbs8175	Toxicity-
C	25	34.4	67.5	6628	9	ADBS2677	Adbs2677	Primary r
C	26	34.2	67.1	5125	2	AA029703	Aacg9703	IRS-1. 3/
C	27	33.8	66.3	291	5	AA668926	AA668926	DNA encod
C	28	33.8	66.3	1018	7	AB224593	Ab224593	Mouse ova
C	29	33.8	66.3	1019	3	AA000296	Aad00296	Mouse ooc
C	30	33.8	66.3	1481	3	AA000297	Aad00297	Mouse ova
C	31	33.8	66.3	1721	6	AB076418	Abq76418	S. cerevis
C	32	33.8	66.3	2629	7	AB001220	Abd01220	Human nuc
C	33	33.8	66.3	6970	7	AB224594	Ab224594	Mouse ova
C	34	33.4	65.5	2560	2	AA18941	Aax18941	Human U62
C	35	33.4	65.5	2981	9	ADB85264	Adbs85264	Mouse RNA
C	36	33.4	65.5	101786	3	AA022293	Aaif22293	BAC contac
C	37	33.2	65.1	193	4	AA125502	AA125502	Probe #15
C	38	33.2	65.1	193	4	AB171654	Ab171654	Human toe
C	39	33.2	65.1	193	4	AA151949	Aai151949	Probe #20
C	40	33.2	65.1	193	4	ABA37774	Ab37774	Probe #16
C	41	33.2	65.1	193	4	AAK46037	Aak46037	Human bon
C	42	33.2	65.1	193	4	AAK19996	Aak19996	Human bra
C	43	33.2	65.1	193	4	ABSA45742	Ab45742	Human liv
C	44	33.2	65.1	193	6	AB20332	Ab20332	Human gen
C	45	33.2	65.1	324	2	AAV89689	Aav89689	EST clone

ALIGNMENTS

RESULT 1	ADB59041	standard; DNA; 828 BP.
ID	ADB59041	
XX	ADB59041	
AC	ADB59041	
XX	ADB59041	
DT	04-DEC-2003 (first entry)	
XX	04-DEC-2003	
DE	Toxicity-related gene, SEQ ID 4067.	
XX	Toxicity-related gene, SEQ ID 4067.	
KW	Toxic; toxin; gene expression profile; hepatotoxicity; liver;	
XX	drug screening; toxicity assay; de.	
XX	Unidentified.	
OS	Unidentified.	
XX	Unidentified.	
PN	WO2003064624-A2.	
PD	07-AUG-2003.	
PF	31-JAN-2003; 2003WO-US003194.	
XX	31-JAN-2003; 2003WO-US003194.	
PR	31-JAN-2002; 2002US-0006087.	
XX	31-JAN-2002; 2002US-0006087.	
PR	15-MAR-2002; 2002US-036405P.	
XX	15-MAR-2002; 2002US-036405P.	
PR	30-DEC-2002; 2002US-0436643P.	
XX	30-DEC-2002; 2002US-0436643P.	
PA	(GENE-) GENE LOGIC INC.	
PI	(GENE-) GENE LOGIC INC.	
XX	(GENE-) GENE LOGIC INC.	
DR	Wendrick D, Porter M, Johnson K, Higgs B, Castle A, Elashoff M;	
XX	Wendrick D, Porter M, Johnson K, Higgs B, Castle A, Elashoff M;	
XX	WPI; 2003-689530/65.	
PT	Predicting a toxic effect of a compound, useful in identifying toxicity	
XX	Predicting a toxic effect of a compound, useful in identifying toxicity	
PT	markers in liver tissues or cells for drug screening and toxicity assays;	
XX	markers in liver tissues or cells for drug screening and toxicity assays;	
PT	comprises preparing gene expression profile of tissue or cells exposed to	
XX	comprises preparing gene expression profile of tissue or cells exposed to	
XX	the compound.	
PS	Claim 1; SEQ ID NO 4067; 1156bp; English.	
XX	Claim 1; SEQ ID NO 4067; 1156bp; English.	
CC	The present invention relates to a method for predicting a toxic effect	
XX	The present invention relates to a method for predicting a toxic effect	
CC	of a compound. The method comprises preparing a gene expression profile	
XX	of a compound. The method comprises preparing a gene expression profile	
CC	of a tissue or cell sample exposed to the compound, and comparing the	
XX	of a tissue or cell sample exposed to the compound, and comparing the	
CC	gene expression profile to a database comprising SEQ ID 1-4925, where	
XX	gene expression profile to a database comprising SEQ ID 1-4925, where	
CC	differential expression of the gene indicates at least one toxic effect.	
XX	differential expression of the gene indicates at least one toxic effect.	
CC	The method is useful for predicting at least one toxic effect of a	
XX	The method is useful for predicting at least one toxic effect of a	
CC	compound, predicting hepatotoxicity or the progression of a toxic effect	
XX	compound, predicting hepatotoxicity or the progression of a toxic effect	

DR	WP1; 2001-300318/31.
P-PSDB; AAE00989.	
XX	
PT	New DNA molecule encoding variant specific adrenoceptor protein with
PT	detection of specific amino acids located in the third intracellular loop
PT	of the polypeptide, for treating vascular contraction of coronary
XX	arteries.
PS	
Claim 3; Page 24-26; 37pp; English.	
XX	
CC	The present sequence is a gene encoding human alpha2B-adrenoceptor
CC	(alpha2B-AR) variant protein. Alpha2B-AR has a glutamic acid repeat
CC	element (amino acids 298-309) of 12 glutamates, in an acidic stretch of
CC	18 amino acids (amino acids 294-311), located in the third intracellular
CC	loop of the receptor polypeptide. The variant is obtained by deletion of
CC	three glutamates from the Glu repeat (amino acids 307-309). Alpha2B-AR
CC	gene is located on chromosome 2. Alpha2-AR mediate many of the
CC	physiological effects of the catecholamines, norepinephrine and
CC	epinephrine. An antagonist of alpha2B-adrenoceptor is useful for treating
CC	a mammal suffering from vascular contraction of coronary arteries and a
CC	disease involving vascular contraction of coronary arteries which is
CC	clinically expressed as coronary heart disease (CHD), unstable chronic
CC	angina pectoris which is clinically expressed as Prinzmetal's variant
CC	form or acute myocardial infarction (AMI). Alpha2B-AR gene is used in
SQ	gene therapy
XX	
Sequence 1344 BP; 219 A; 459 C; 400 G; 266 T; 0 U; 0 Other;	
Query Match	93.7%; Score 47.8; DB 5; Length 1344;
Best Local Similarity	96.1%; Pred. No. 0.00057;
Matches	49; Conservative 0; Mismatches 2; Indels 0; Gaps 0.
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1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAAGTGTGAACCCCG 51	
Db 880 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGTGTGAACCCCG 930	
RESULT 4	
ID AD44388	
AAD44388 standard; DNA; 1344 BP.	
XX	
AD44388;	
XX	
13-DEC-2002 (first entry)	
XX	
Human alpha-2B-adrenoceptor variant DNA.	
DE	
XX	
Human; hypertension; alpha-2B-adrenoceptor; AR; antihypertensive;	
KM	
KW	hypertension; hypotensive; variant; gene; de.
OS	
Homo sapiens.	
XX	
Synthetic.	
XX	
Key	Location/Qualifiers
CDS	1..1344
/feature=	a
/product=	"Human alpha-2B-adrenoceptor variant protein"
FT	
WT	
MO200266617-A1.	
PN	
29-AUG-2002.	
PD	
13-FEB-2002; 2002MO-PI000113.	
PF	
20-FEB-2001; 2001FI-00000323.	
PR	
(JURI-) JURILAB LTD OY.	
PA	
Salonen J;	
PI	
WI; 2002-667063/71.	
RR	
P-PSDB; AAE26633.	
XX	

PT	Detecting a risk of hypertension and targeting treatment in a subject by determining the pattern of alleles encoding a variant alpha-2-adrenoceptor.
XX	
PS	Disclosure; Page 24-26; 35pp; English.
CC	The invention relates to a method for detecting a risk of hypertension by determining the pattern of alleles encoding a variant alpha-2-adrenoceptor (AR) protein. The methods and compositions of the invention are useful for detecting risks and targeting treatment for hypertension. The kit is also useful for selecting for clinical drug trials testing the antihypertensive effect of compounds. The present sequence is human alpha-2B-adrenoceptor variant DNA
CC	-2B-adrenoceptor variant DNA
CC	
SQ	Sequence 1344 BP; 219 A; 459 C; 400 G; 266 T; 0 U; 0 Other;
OY	
Db	880 GAGCATGAACTGTGAAGAGGAGGAGGAGAAGAGTGTGAACCCAG 51
RESULT 5	
ABLJ2074	
ID	ABLJ2074 standard; DNA; 6904 BP.
AC	ABLJ2074;
DT	26-MAR-2002 (first entry)
XX	
DE	Human immune system associated gene SEQ ID NO: 47.
XX	
KW	Human; immune system disease; cytosine methylation; antiasthmatic; antiarteriosclerotic; antianaemic; cyrostatic; nootropic; KW neuroprotective; anti-HIV; anticonvulsant; ophthalmological; KW antirheumatic; antiarthritis; antidiabetic; antiporiatic; KW antinflammatory; cancer; eye disease; arteriosclerosis; anaemia; KW acute myeloid leukaemia; Alzheimer's disease; AIDS; epilepsy; KW neurofibromatosis; rheumatoid arthritis; psoriasis; bowel disease; gene; de. KW KW
OS	Homo sapiens.
XX	
PN	MO200200928-A2.
PD	03-JAN-2002.
XX	
PF	02-JUL-2001; 2001WO-EP007537.
XX	
PR	30-JUN-2000; 2000DE-01032529.
PR	01-SEP-2000; 2000DE-01043826.
XX	(EPig-) EPIGENOMICS AG.
PA	
XX	
P1	Olek A, Piepenbrock C, Berlin K,
DR	WPI; 2002-130909/17.
XX	
PT	Nucleic acid comprising fragment of chemically modified gene, useful for diagnosis and treatment of diseases associated with abnormal cytosine methylation.
PT	
PS	Claim 1; SEQ ID NO 47; 32pp + Sequence Listing; German.
XX	
CC	The present invention provides a number of human immune system associated genes which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disorders, including eye diseases such as retinopathy, neovascular glaucoma and ocular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid leukemia, Alzheimer's disease, AIDS, epilepsy, neurofibromatosis, CC leukema, AIDS, epilepsy, neurofibromatosis,

PF		30-JAN-1998;	98US-00016434.
PR		30-JAN-1998;	98US-00016434.
PA	(INCYTE GENOMICS INC.		
P1	Au-Young J, Seilhamer JJ;		
XX	WPI; 2003-352189/33.		
DR			
PT	Combination of polynucleotide probes, useful as array elements in a		
PT	microarray for monitoring the expression of a number of target		
PT	polynucleotides.		
PS	Claim 1; SEQ ID NO 1181; 65pp; English.		
XX			
CC	The invention relates to a combination which, comprises a number of		
CC	polynucleotide probes comprising a sequence selected from one of the 1490		
CC	sequences mentioned in the specification. The combination is useful as an		
CC	array element in a microarray for monitoring the expression of a number		
CC	of target polynucleotides. The microarray is particularly useful in the		
CC	diagnosis and treatment of cancer and immunopathology and neuropathology.		
CC	The microarray is useful in diagnostics and treatment regimens, drug		
CC	discovery and development, toxicological and carcinogenicity studies,		
CC	forensics and pharmacogenomics. The microarray is also useful for		
CC	monitoring progression of diseases and for developing sophisticated		
CC	profiles for the effects of currently available therapeutic drugs. The		
CC	combination is also useful for purifying a subpopulation of mRNAs, cDNAs		
CC	and genomic fragments and in research and diagnostic applications. The		
CC	array can detect changes in expression in a large number of genes coding		
CC	for different signaling pathway populations which can be used to diagnose		
CC	various diseases including cancer e.g. adenocarcinoma and leukaemia,		
CC	immunopathies e.g. AIDS and asthma, neuropathies e.g. Alzheimer's disease		
CC	and Parkinson's disease. The present sequence represents a polynucleotide		
CC	probe of the invention. Note: The sequence data for this patent did not		
CC	form part of the printed specification but was obtained in electronic		
CC	format directly from USPRO at		
CC	seqdata.uspro.gov/sequence.htm?DocID=06500938B1		
XX			
SQ	Sequence 2072 BP; 316 A; 705 C; 660 G; 391 T; 0 U; 0 Other;		
	Query Match	81.6%; Score 41.6; DB 7; Length 2072;	
	Best Local Similarity	91.7%; Pred. No. 0.027; 4; Indels 0; Gaps 0	
	Matches	44; Conservative 0; Mismatches 4; Indels 0; Gaps 0	
OY	4 GATGAAGCTGAAGAGGAGGAGGAGGAGAAGTGTGAACCCCG 51		
D8			
	1304 GAAGAGGAGGAAGAGGAGGAGGAGGAGGAGGAAGTGTGAACCCCG 1351		
RESULT 13			
ID	ABZ42624		
AC	ABZ42624 standard; DNA; 3274 BP.		
XX			
DT	04-MAR-2003 (first entry)		
DE			
XX	Human alpha 2b-adrenoceptor nucleotide SEQ ID NO:41.		
XX	G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;		
KM	G protein-coupled receptor modulator; antibody; immune-related disease;		
KM	growth-related disease; cell regeneration-related disease; AIDS; cancer;		
KM	immunological-related cell proliferative disease; autoimmune disease;		
KM	Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;		
KM	osteoporosis; cardiomyopathy; inflammation; Crohn's disease; diabetes;		
KM	gratit versus host disease; Parkinson's disease; multiple sclerosis; pain;		
KM	psoriasis; anxiety; depression; schizophrenia; dementia; memory loss;		
KM	mental retardation; epilepsy; asthma; tuberculosis; obesity; nausea;		
KM	hypertension; hypotension; renal disorder; rheumatoid arthritis; trauma;		
XX	ulcer; gene; de.		
OS	Homo sapiens.		

[illegible]

```

OS Homo sapiens.
PN WO200129064-A2.
XX
XX 26-APR-2001.
XX
XX 18-OCT-2000; 2000WO-US041260.
XX
XX 18-OCT-1999; 99US-0160042P.
PA (UABR-) UAB RES FOUND.
XX
XX Strong TV, Conry RM, Lobuglio AF;
PT WPI; 2001-308473/32.
DR
XX
XX Isolated DNA sequence encoding a melanoma tumor associated antigen,
PT useful for detection, diagnosis and staging of melanomas, monitoring
XX metastatic melanomas and as a target for immunotherapy.
XX
XX Claim 1; Fig 2G; 55pp; English.
XX
XX The present sequence is 3' end cDNA of clone 5.31 encoding human melanoma
CC tumour-associated antigen. The CDNA is useful in gene therapy and as an
CC oligonucleotide probe for detecting mRNA coding for the melanoma tumou-
CC associated antigen in a sample. The CDNA is useful for vaccinating an
CC individual who is at risk of getting cancer, suspected of having cancer
CC or has cancer. The present sequence is useful for inhibiting growth of
CC melanoma tumour by inducing an immune response against it. The melanoma
CC tumour-associated antigen is useful for detection, diagnosis and staging
CC of melanoma, monitoring metastatic melanoma, as new targets for
CC immunotherapy. The identification of novel tumour antigens may allow
CC recurrence and metastatic disease to be detected and disease burden
CC monitored. Characterisation of the melanoma tumour-associated antigen is
CC of particular use in melanoma research
XX
SQ Sequence 593 BP; 158 A; 115 C; 146 G; 174 T; 0 U; 0 Other;

Query Match          71.8%; Score 36.6; DB 4; Length 593;
Best Local Similarity 82.4%; Pred. No. 0.56;
Matches 42; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY      1 GAGGATGAAGCTGAAGAGGAGGAGGAGGAGGAGGAAGTGTGAACCCGAG 51
Db      . 295 GAGGAGGAGGAAGATGAGGAGGAGGAGGAGGAAGAAGAGTGAACTCAG 345

RESULT 15
ABT20256
ID ID ABT20256 standard; DNA; 2367 BP.
XX
XX ABT20256;
XX
XX 16-APR-2003 (first entry)
XX
XX Aspergillus fumigatus essential gene #2614.
XX
XX Fungicide; cytostatic; essential gene; Aspergillus fumigatus; infection;
KM cancer; contamination; biofilm; antibody; immune response; ds.
OS Aspergillus fumigatus.
XX
XX WO200286090-A2.
XX
XX 31-OCT-2002.
XX
XX 23-APR-2002; 2002WO-US013142.
PF
PD
XX
XX 23-APR-2001; 2001US-0285697P.
PR
XX 27-APR-2001; 2001US-0287066P.
PR
XX 05-JUN-2001; 2001US-0295890P.
PR
XX 09-JUL-2001; 2001US-0303899P.
PR
XX 31-AUG-2001; 2001US-0316362P.
PR
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XX (ELIT-) ELITRA PHARM INC.
PA
XX
XX
PI Jieng B, Tishkoff D, Zamudio C, Eroshkin AM, Hu W, Iamleux SM;
XX
XX WPI; 2003-093124/08.
XX
XX
PT New purified or isolated nucleic acids of essential genes of *Aspergillus*
PT *fumigatus*, useful for treating or preventing infections by *A. fumigatus*,
PT or for treating a non-infectious disease in a subject e.g. cancer.
XX
XX
PS Disclosure; Page; 175pp; English.

The invention relates to novel purified or isolated nucleic acids of essential genes of *Aspergillus fumigatus*. The isolated nucleic acids of the invention are used to treat or prevent infections by a pathogenic organism such as *A. fumigatus*, to treat a non-infectious disease in a subject (e.g. cancer), to prevent or inhibit formation of an object by *A. fumigatus*, or to prevent or contain contamination of an object comprising *A. fumigatus*. The polynucleotides are useful for expressing recombinant protein for characterisation, screening or therapeutic use, as markers for host tissues in which the pathogenic organisms invade or reside, for competing with the DNA sequence of *A. fumigatus* to identify duplicated genes or paralogues having the same or similar biochemical activity and/or function, for competing with DNA sequences of other related or distant pathogenic organisms to identify potential orthologues essential or virulence genes, for selecting and making oligomers for attachment to a nucleic acid array for examination of expression patterns, for raising anti-protein antibodies, as an antigen to raise anti-DNA antibodies or to elicit another immune response, and for identifying polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding interaction. The polypeptides may be used to raise antibodies or to elicit immune response, as a reagent in assays designed to quantitatively determine levels of the protein in biological fluids, as a marker for host tissues in which pathogenic organisms invade or reside, and to isolate correlative receptors or ligands in the case of virulence factors. This polynucleotide sequence represents one of the essential genes of *Aspergillus fumigatus* of the invention

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OS Homo sapiens.
PN WO200129064-A2.
XX
XX 26-APR-2001.
XX
XX 18-OCT-2000; 2000WO-US041260.
XX
XX 18-OCT-1999; 99US-0160042P.
XX
XX (UABR-) UAB RES FOUND.
XX
XX Strong TV, Conry RM, Lobuglio AF;
XX
XX WPI; 2001-308473/32.
XX
XX Isolated DNA sequence encoding a melanoma tumor associated antigen,
XX useful for detection, diagnosis and staging of melanomas, monitoring
XX metastatic melanomas and as a target for immunotherapy.
XX
XX Claim 1; Fig 2G; 55pp; English.
XX
XX The present sequence is 3' end cDNA of clone 5.31 encoding human melanoma
XX tumour-associated antigen. The cDNA is useful in gene therapy and as an
XX oligonucleotide probe for detecting mRNA coding for the melanoma tumour-
XX associated antigen in a sample. The cDNA is useful for vaccinating an
XX individual who is at risk of getting cancer, suspected of having cancer
XX or has cancer. The present sequence is useful for inhibiting growth of
XX melanoma tumour by inducing an immune response against it. The melanoma
XX tumour-associated antigen is useful for detection, diagnosis and staging
XX of melanoma, monitoring metastatic melanoma, as new targets for
XX immunotherapy. The identification of novel tumour antigens may allow
XX recurrence and metastatic disease to be detected and disease burden
XX monitored. Characterisation of the melanoma tumour-associated antigen is
XX of particular use in melanoma research
XX
XX Sequence 593 BP; 158 A; 115 C; 146 G; 174 T; 0 U; 0 Other;
XX
XX Query Match 71.8%; Score 36.6; DB 4; Length 593;
XX Best Local Similarity 82.4%; Pred. No. 0.56;
XX Matches 42; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
XX
XX 1 GAGGATGAAGCTGAAGAGGAGGAGGAGGAGGAGGAAGTGTGAACCCGAG 51
XX Db 295 GAGGAGGAGGAAGATGAGGAGGAGGAGGAGGAGGAAGAGAGTGAACCTCAG 345
XX
XX RESULT 15
XX ABT20256
XX ID ABT20256 standard; DNA; 2367 BP.
XX
XX ABT20256;
XX
XX 16-APR-2003 (first entry)
XX
XX Aspergillus fumigatus essential gene #2614.
XX
XX Fungicide; cytosolic; essential gene; Aspergillus fumigatus; infection;
XX cancer; contamination; biofilm; antibody; immune response; ds.
XX
XX Aspergillus fumigatus.
XX
XX WO200286090-A2.
XX
XX 31-OCT-2002.
XX
XX 23-APR-2002; 2002WO-US013142.
XX
XX 23-APR-2001; 2001US-0285697P.
XX
XX 27-APR-2001; 2001US-0287066P.
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XX 05-JUN-2001; 2001US-0295890P.
XX
XX 09-JUL-2001; 2001US-0303899P.
XX
XX 31-AUG-2001; 2001US-0316362P.
XX

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and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
1	41.6	81.6	2072	4	US-09-016-434-1181	Sequence 1181, Ap
2	36.6	71.8	593	4	US-09-691-538A-12	Sequence 12, Appl
3	35	68.6	1820	5	PCT-US94-09752-1	Sequence 1, Appl
4	34.2	67.1	5125	1	US-08-094-948A-4	Sequence 4, Appl
5	34.2	67.1	5125	5	PCT-US96-09319-4	Sequence 4, Appl
6	33	64.7	650	3	US-09-328-111-333	Sequence 333, App
7	32.8	64.3	404	4	US-09-621-976-18769	Sequence 18769, A
8	32.6	63.9	661	4	US-09-894-998A-34	Sequence 34, Appl
9	32.2	63.1	2817	4	US-09-620-312D-1085	Sequence 1085, Ap
10	32.2	63.1	14561	4	US-09-392-714-1	Sequence 1, Appl
11	31.8	62.4	636	4	US-09-702-705-1668	Sequence 1668, Ap
12	31.8	62.4	636	4	US-09-736-457-1668	Sequence 1668, Ap
13	31.8	62.4	636	4	US-09-614-124B-1668	Sequence 1668, Ap
14	31.8	62.4	636	4	US-09-671-325-1668	Sequence 1668, Ap
15	31.6	62.0	258	4	US-09-345-882-21	Sequence 21, Appl
16	31.6	62.0	3211	2	US-08-574-959A-8	Sequence 8, Appl
17	31.6	62.0	3211	3	US-09-357-014-8	Sequence 8, Appl
18	31.6	62.0	3901	2	US-08-574-959A-6	Sequence 6, Appl
19	31.6	62.0	3901	3	US-09-357-014-6	Sequence 6, Appl
20	31.6	62.0	4226	4	US-09-620-313D-480	Sequence 480, App
21	31.6	62.0	6002	4	US-09-345-882-4	Sequence 4, Appl
22	31.6	62.0	162450	4	US-09-345-882-1	Sequence 1, Appl
23	31.4	61.6	2556	4	US-09-817-310-1	Sequence 309, App
24	31.2	61.2	129	4	US-09-702-705-309	Sequence 309, App
25	31.2	61.2	129	4	US-09-736-457-309	Sequence 309, App
26	31.2	61.2	129	4	US-09-614-124B-309	Sequence 309, App
27	31.2	61.2	129	4	US-09-671-325-309	Sequence 309, App

28	31.2	61.2	129	4	US-09-589-184-309	Sequence 309, App
29	31.2	61.2	403	4	US-09-621-976-18731	Sequence 18731, A
30	31.2	61.2	427	4	US-09-621-976-18711	Sequence 18711, A
31	31.2	61.2	438	4	US-09-702-705-1028	Sequence 1028, Ap
32	31.2	61.2	438	4	US-09-736-457-1028	Sequence 1028, Ap
33	31.2	61.2	438	4	US-09-614-124B-1028	Sequence 1028, Ap
34	31.2	61.2	438	4	US-09-671-325-1028	Sequence 1028, Ap
35	31.2	61.2	450	4	US-09-621-976-3667	Sequence 3667, Ap
36	31.2	61.2	450	4	US-09-621-976-3669	Sequence 3669, Ap
37	31.2	61.2	459	4	US-09-621-976-1227	Sequence 1227, Ap
38	31.2	61.2	459	4	US-09-621-976-1224	Sequence 1224, Ap
39	31.2	61.2	464	4	US-09-621-976-1223	Sequence 1223, Ap
40	31.2	61.2	464	4	US-09-621-976-3665	Sequence 3665, Ap
41	31.2	61.2	464	4	US-09-621-976-18757	Sequence 18757, A
42	31.2	61.2	476	4	US-09-621-976-18704	Sequence 18704, A
43	31.2	61.2	514	4	US-09-621-976-3661	Sequence 3661, Ap
44	31.2	61.2	521	4	US-09-621-976-18772	Sequence 18772, A
45	31.2	61.2	686	4	US-09-166-350-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1
US-09-016-434-1181
Sequence 1181, Application US/09016434
Patent No. 6500938
GENERAL INFORMATION:
APPLICANT: Janice Au-Young
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,434
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1181:
SEQUENCE CHARACTERISTICS:
LENGTH: 2072 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: 9178197
US-09-016-434-1181
Query Match 81.6%; Score 41.6; DB 4; Length 2072;
Best Local Similarity 91.7%; Pred. No. 0.0014;

;; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
;; TITLE OF INVENTION: TREATMENT OF HERPES SIMPLEX VIRUS INFECTION
;; FILE REFERENCE: 210121.538
;; CURRENT APPLICATION NUMBER: US/09/894,998A
;; NUMBER OF SEQ ID NOS: 64
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 34
;; LENGTH: 661
;; TYPE: DNA
;; ORGANISM: HSV-2
US-09-894-998A-34

Query Match 63.9%; Score 32.6; DB 4; Length 661;
Best Local Similarity 89.7%; Pred. No. 0.44;
Matches 35; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAG 39
Db 42 GAGGAGAGGCGGAGAGAGAGAGAGAGAGAGAGAGAG 4

RESULT 9
US-09-620-312D-1085

;; Sequence 1085, Application US/09620312D
;; Patent No. 6569662
;; GENERAL INFORMATION:
;; APPLICANT: Tang, Y. Tom
;; APPLICANT: Liu, Chenghua
;; APPLICANT: Asundi, Vinod
;; APPLICANT: Zhang, Jie
;; APPLICANT: Ren, Feiyan
;; APPLICANT: Chen, Rui-hong
;; APPLICANT: Zhao, Qing A.
;; APPLICANT: Wehrman, Tom
;; APPLICANT: Xue, Aidong J.
;; APPLICANT: Yang, Yonghong
;; APPLICANT: Wang, Jishen-Rui
;; APPLICANT: Zhou, Ping
;; APPLICANT: Ma, Yundong
;; APPLICANT: Wang, Dunrui
;; APPLICANT: Wang, Zhiwei
;; APPLICANT: John Tillinghaast
;; APPLICANT: Drmanac, Radoje T.
;; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
;; TITLE OF INVENTION: Polypeptides
;; FILE REFERENCE: 784CIP2B
;; CURRENT APPLICATION NUMBER: US/09/620,312D
;; CURRENT FILING DATE: 2000-07-19
;; PRIOR APPLICATION NUMBER: 09/552,317
;; FILE REFERENCE: 2000-04-25
;; PRIOR APPLICATION NUMBER: 09/488,725
;; PRIOR FILING DATE: 2000-01-21
;; NUMBER OF SEQ ID NOS: 1105
;; SOFTWARE: pt_FL_genes Version 1.0
;; SEQ ID NO 1085
;; LENGTH: 2817
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (109)..(2817)
US-09-620-312D-1085

Query Match 63.1%; Score 32.2; DB 4; Length 2817;
Best Local Similarity 82.2%; Pred. No. 0.65;
Matches 37; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2 AGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGTGTGAAC 46
Db 209 AGGGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGATGACC 253

RESULT 10
US-09-392-714-1

;; Sequence 1, Application US/09392714A
;; Patent No. 6686147
;; GENERAL INFORMATION:
;; APPLICANT: Scanlan, Matthew J.
;; APPLICANT: Gure, Ali O.
;; APPLICANT: Williamson, Barbara
;; APPLICANT: Chen, Yao-Tseng
;; APPLICANT: Old, Lloyd J.
;; TITLE OF INVENTION: Cancer Associated Antigens and Uses
;; TITLE OF INVENTION: Therfor
;; FILE REFERENCE: L0461/7062
;; CURRENT APPLICATION NUMBER: US/09/392,714A
;; CURRENT FILING DATE: 1999-09-09
;; EARLIER APPLICATION NUMBER: PCT/US98/14679
;; EARLIER FILING DATE: 1998-07-15
;; NUMBER OF SEQ ID NOS: 30
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 1
;; LENGTH: 14561
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-392-714-1

Query Match 63.1%; Score 32.2; DB 4; Length 14561;
Best Local Similarity 82.2%; Pred. No. 0.75;
Matches 37; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGTGTGA 45
Db 6252 GAGGAGAGAGAGATGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGTGA 6296

RESULT 11
US-09-702-705-1668

;; Sequence 1668, Application US/09702705
;; Patent No. 6504010
;; GENERAL INFORMATION:
;; APPLICANT: Wang, Tongtong
;; APPLICANT: Bangur, Chaitanya S.
;; APPLICANT: Lodes, Michael A.
;; APPLICANT: Fanger, Gary
;; APPLICANT: Vedvick, Tom
;; APPLICANT: Carter, Darrick
;; APPLICANT: Retter, Marc
;; APPLICANT: Mannion, Jane
;; APPLICANT: Fan, Liqun
;; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
;; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
;; FILE REFERENCE: 210121.478C14
;; CURRENT APPLICATION NUMBER: US/09/702,705
;; CURRENT FILING DATE: 2000-10-30
;; NUMBER OF SEQ ID NOS: 1833
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 1668
;; LENGTH: 636
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-702-705-1668

Query Match 62.4%; Score 31.8; DB 4; Length 636;
Best Local Similarity 76.5%; Pred. No. 0.74;
Matches 39; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 1 GAGGATGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGTGTGAACCCAG 51
Db 586 GAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGATGATATGACTCGAG 636

RESULT 12
US-09-736-457-1668
;; Sequence 1668, Application US/09736457


```

1 Patient No.6509448
2 /
3 / GENERAL INFORMATION:
4 /
5 / APPLICANT: Wang, Tongtong
6 /
7 / APPLICANT: Bangur, Chaltanya S.
8 /
9 / APPLICANT: Lodes, Michael A.
10 /
11 / APPLICANT: Fanger, Gary
12 /
13 / APPLICANT: Vedvick, Tom
14 /
15 / APPLICANT: Carter, Darrick
16 /
17 / APPLICANT: Retter, Marc
18 /
19 / APPLICANT: Mannion, Jane
20 /
21 / APPLICANT: Fan, Liqun
22 /
23 / APPLICANT: Wang, Aijun
24 /
25 / TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
26 /
27 / TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
28 /
29 / FILE REFERENCE: 210121.478C15
30 /
31 / CURRENT APPLICATION NUMBER: US/09/736,457
32 /
33 / CURRENT FILING DATE: 2000-12-13
34 /
35 / NUMBER OF SEQ ID NOS: 1864
36 /
37 / SOFTWARE: FaalSEQ for Windows Version 3.0
38 /
39 / SEQ ID NO 1668
40 /
41 / LENGTH: 636
42 /
43 / TYPE: DNA
44 /
45 / ORGANISM: Homo sapiens
46 /
47 / US-09-736-457-1668

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[illegible]

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RESULT 13
US-09-614-124B-1668
/ Sequence 1668, Application US/09614124B
/ Patent No. 6630574
/ GENERAL INFORMATION:
/ APPLICANT: Mang, Tongtong
/ APPLICANT: Bangur, Chaltanya S.
/ APPLICANT: Lodes, Michael A.
/ APPLICANT: Fanger, Gary
/ APPLICANT: Vedvick, Tom
/ APPLICANT: Carter, Darlick
/ APPLICANT: Retter, Marc
/ APPLICANT: Mannon, Jane
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
/ TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
/ FILE REFERENCE: 210121.478C9
/ CURRENT APPLICATION NUMBER: US/09/614,124B
/ CURRENT FILING DATE: 2001-07-11
/ NUMBER OF SEQ ID NOS: 1668
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 1668
/ LENGTH: 636
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-09-614-124B-1668

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Query Match	62.4%	Score 31.8;	DB 4,	Length 636;
Best Local Similarity	76.5%	Pred. No. 0.74;		
Matches	39;	Conservative	0;	Mismatches 12;
			Indels	0;
			Gaps	0.

QY	1	GAGATGAAGCTGAAGAAGAGAGAGAGAGAGAGAAAGTGTGAACCCAG	51
		GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGATGATATATAGACTCGAG	636

RESULT 14
US-09-671-325-1668
; Sequence 1668, Application US/09671325
; Patent No. 6667154

```

? GENERAL INFORMATION:
? APPLICANT: Wang, Tongtong
? APPLICANT: Bangur, Chaitanya S.
? APPLICANT: Lodes, Michael A.
? APPLICANT: Fanger, Gary
? APPLICANT: Vedvick, Tom
? APPLICANT: Carter, Darick
? APPLICANT: Retter, Marc
? APPLICANT: Mannion, Jane
? APPLICANT: Fan, Liqun
? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
? TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
? FILE REFERENCE: 210121.478C12
? CURRENT APPLICATION NUMBER: US//09/671,325
? CURRENT FILING DATE: 2000-09-26
? NUMBER OF SEQ ID NOS: 1825
? SOFTWARE: FastSeq for Windows Version 3.0
? SEQ ID NO 1668
? LENGTH: 636
? TYPE: DNA
? ORGANISM: Homo sapiens
US-09-671-325-1668

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Query Match	62.4%	Score 11.8	DB 4	Length 636
Best Local Similarity	76.5%	Pred. No.	0.74	
Matches 39	Conservative 0	Mismatches 12	Indels 0	Gaps 0
Oy	1 GAGGATTAACCTGAAGCGAGGAGGAGGAGGAGAAGCTGTGAACCCCG 51			
Db	586 GAGGAGGAAGAAGGAGGAGGAGGAGGAGGAGGAGGATTAATTATGACTTCGAG 636			

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RESULT 15
US-09-345-882-21
Sequence 21, Application US/09345882
Patent No. 639573
GENERAL INFORMATION:
APPLICANT: Bouquelere, Lydie
TITLE OF INVENTION: A NUCLEIC ACID ENCODING A RETINOBLASTOMA BINDING PROTEIN (RBP-7)
TITLE OF INVENTION: AND POLYMORPHIC MARKERS ASSOCIATED WITH SAID NUCLEIC ACID.
FILE REFERENCE: GENSER.031A
CURRENT APPLICATION NUMBER: US/09/345,882
CURRENT FILING DATE: 1999-06-30
PRIOR APPLICATION NUMBER: US 60/091,315
PRIOR FILING DATE: 1998-06-30
PRIOR APPLICATION NUMBER: US 60/111,909
PRIOR FILING DATE: 1998-12-10
NUMBER OF SEQ ID NOS: 140
SOFTWARE: Patent.pm
SEQ ID NO 21
LENGTH: 256
TYPE: DNA
ORGANISM: Homo sapiens
US-09-345-882-21

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Query Match	62.0%	Score 31.6	DB 4	Length 258
Best Local Similarity	89.5%	Pred. No.	0.77	
Matches	34	Conservative	0	Mismatches 4; Indels 0; Gaps 0;
Oy	1	GAGGATGAACCTGTAAAGCAGCGACGACGACGAGA	38	
Dh	32	GATCAAGAACACAGAAAGCAGACGACGACGACGAGA	69	

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	QY	Indels	Gaps
1	GAGGATGAACGTGAAAGAGAGAGAGAGAGAGAGAGCTCA	44	0
Db			
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RESULT 11
US-10-128-714-7204
; Sequence 7204, Application US/10128714
; Publication No. US20030119013A1
GENERAL INFORMATION:
INDEX

APPLICANT: JIANG, Bo
 APPLICANT: HU, Mengqi
 APPLICANT: TISHKOFF, Daniel
 APPLICANT: ZAMUDIO, Carlos
 APPLICANT: EROSHKIN, Alexey M
 APPLICANT: LEMIEUX, Sebastien M
 TITLE OF INVENTION: Identification of Essential Genes in *Aspergillus fumigatus* and
 FILE REFERENCE: Methods of Use
 CITIPATENT: 10182-018-999

```

CURRENT APPLICATION NUMBER: US/10/128,714
PRIOR FILING DATE: 2002-04-23
PRIOR APPLICATION NUMBER: US 60/285,697
PRIOR FILING DATE: 2001-04-23
PRIOR APPLICATION NUMBER: US 60/287,066
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: US 60/295,890
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: US 60/303,899
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: US 60/316,362
NUMBER OF SEQ ID NOS: 2001-08-31
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7204
LENGTH: 2367
TYPE: DNA
ORANISM: Aspergillus fumigatus
US-10-128-714-7204

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Query Match	70.6%	Score 35	DB 14	Length 2367	
Best Local Similarity	88.6%	Ped. No. 0.038			
Matches	39	Conservative	0	Mismatches	5
				Indels	0
				Gaps	0

OY 1 GAGATGAAGCTGAAAGAGAGAGAGAGAGAGAAAGTGTGA 44
 |||||
 Db 2314 GAGGAGGAAGAAAGAGAGAGAGAGAGAGAGAAAGACTTTGA 2357
 |||||

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RESU: 12
US-10-128-714-204
/ Sequence 204, Application US/10128714
/ Publication No. US20030119013A1
GENERAL INFORMATION:
APPLICANT: Jiang, Bo
APPLICANT: Hu, Wengli
APPLICANT: Tishkoff, Daniel
APPLICANT: Zamudio, Carlos
APPLICANT: Eroshekin, Alexey M
APPLICANT: Lemieux, Sebastien M
TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
FILE REFERENCE: 10182-018-999
CURRENT APPLICATION NUMBER: US/10128, 714
CURRENT FILING DATE: 2002-04-23
PRIOR APPLICATION NUMBER: US 60/285,637
PRIOR FILING DATE: 2001-04-23
PRIOR APPLICATION NUMBER: US 60/287,066
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: US 60/295,890
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: US 60/303,899
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: US 60/316,362
PRIOR FILING DATE: 2001-08-31
NUMBER OF SEQ ID NOS: 8603
SOFTWARE: Patentin version 3.1
SEQ ID NO 204
LENGTH: 4238
TYPE: DNA
ORGANISM: Aspergillus fumigatus
US-10-128-714-204

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Query Match	70.6%	Score 36;	DB 14;	Length 4238;
Best Local Similarity	88.6%	Pred. No. 0.038;		
Matches	39; Conservative	0; Mismatches	5; Indels	0; Gaps
QY	1	GAGGATGAACCTGAAGAGAGAGAGAGAGAGAGAGACTTGA	44	
Db	3314	GAGGAGGAAGAAGAGAGAGAGAGAGAGAGAGAAAGACTTTGA	3357	

RESULT 13
/ Sequence 5204, Application US/10128714
/ Publication No. US20030119013A1
/ GENERAL INFORMATION:
/ APPLICANT: Jiang, Bo
/ APPLICANT: Hu, Wengqi
/ APPLICANT: Tishkoff, Daniel
/ APPLICANT: Zamudio, Carlos
/ APPLICANT: Eroshtkin, Alexey M
/ APPLICANT: Lemieux, Sebastien M
/ TITLE OF INVENTION: Identification of Essential Genes in *Aspergillus fumigatus* and
/ FILE REFERENCE: 10182-018-999
/ CURRENT APPLICATION NUMBER: US/10/128,714
/ PRIORITY FILING DATE: 2002-04-23
/ PRIOR APPLICATION NUMBER: US 60/285,697
/ PRIORITY FILING DATE: 2001-04-23
/ PRIOR APPLICATION NUMBER: US 60/287,066
/ PRIORITY FILING DATE: 2001-04-27
/ PRIOR APPLICATION NUMBER: US 60/295,890
/ PRIORITY FILING DATE: 2001-06-05
/ PRIOR APPLICATION NUMBER: US 60/303,899
/ PRIORITY FILING DATE: 2001-07-00

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 07:20:29 ; Search time 2886 Seconds
(Without alignments)
621.792 Million cell updates/sec

Title: US-09-692-077D-2_COPY_880_930

Perfect score: 51
Sequence: 1 gagagctgaagctgaagagga.....agggaagctgtgacccacag 51

Scoring table: IDENTITY_NUC

Gapop 10_0 , Gapext 1.0

Searched: 37577330 seqs, 17593059518 residues

Total number of hits satisfying chosen parameters: 75154660

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	51	100.0	828	1	PCT-US03-03194-4067	Sequence 4067, App
2	51	100.0	828	100	US-60-436-643-4067	Sequence 4067, App
3	51	100.0	828	103	US-60-466-720-1259	Sequence 1259, App
4	51	100.0	1344	29	US-09-692-077B-2	Sequence 2, App1
5	51	100.0	1344	29	US-09-692-077D-2	Sequence 2, App1
6	51	100.0	1344	43	US-10-001-073-2	Sequence 2, App1
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8	49	96.1	60	29	US-09-692-077D-25	Sequence 25, App
9	49	96.1	60	43	US-10-001-073A-55	Sequence 55, App
10	47.8	93.7	1344	20	US-09-825-982-1	Sequence 1, App1
11	47.8	93.7	1344	33	US-09-825-982-1	Sequence 1, App1
12	47.8	93.7	1344	44	US-10-077-870-1	Sequence 1, App1
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14	41.6	81.6	481	72	US-60-164-763-274	Sequence 274, App
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C 16	41.6	81.6	481	73	US-60-170-346-61	Sequence 1935, App
17	41.6	81.6	516	31	US-09-726-174-3537	Sequence 61, App
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19	41.6	81.6	569	72	US-60-160-159-211	Sequence 1492, App
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21	41.6	81.6	569	72	US-60-169-840-3708	Sequence 659, App
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C 25	41.6	81.6	601	39	US-09-949-004-4865	Sequence 3351, App
26	41.6	81.6	1353	29	US-09-422-985-3	Sequence 4865, App
27	41.6	81.6	1353	29	US-09-692-077B-1	Sequence 3, App1
28	41.6	81.6	1353	29	US-09-692-077D-1	Sequence 1, App1
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32	41.6	81.6	1353	44	US-10-077-870-3	Sequence 3, App1
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35	41.6	81.6	1353	102	US-60-453-050-6437	Sequence 6437, App
36	41.6	81.6	1353	103	US-60-453-135-6437	Sequence 6437, App
37	41.6	81.6	1825	39	US-09-949-004-175	Sequence 6437, App
38	41.6	81.6	2072	49	US-10-305-120-1181	Sequence 1181, App
39	41.6	81.6	3274	47	US-10-225-567A-41	Sequence 41, App1
40	41.6	81.6	3655	107	US-60-500-315-890	Sequence 890, App
41	41.6	81.6	3891	107	US-60-500-315-891	Sequence 891, App
42	41.6	81.6	4050	76	US-60-207-360-68	Sequence 68, App1
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ALIGNMENTS

RESULT 1
PCT-US03-03194-4067
Sequence 4067, Application PC/TUS0303194
GENERAL INFORMATION:
APPLICANT: Mendrick, Donna
APPLICANT: Porter, Mary
APPLICANT: Johnson, Kory
APPLICANT: Castle, Arthur
APPLICANT: Elashoff, Michael
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Molecular Hepatotoxicology Modeling
FILE REFERENCE: 44921-5038-01-WO
CURRENT APPLICATION NUMBER: PCT/US03/03194
CURRENT FILING DATE: 2003-01-31
PRIOR APPLICATION NUMBER: US 60/222,040
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 60/222,880
PRIOR FILING DATE: 2000-11-02
PRIOR APPLICATION NUMBER: US 60/290,029

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1  PRIOR FILING DATE: 2001-05-11
2  PRIOR APPLICATION NUMBER: US 60/290,645
3  PRIOR FILING DATE: 2001-05-15
4  PRIOR APPLICATION NUMBER: US 60/292,336
5  PRIOR FILING DATE: 2001-05-22
6  PRIOR APPLICATION NUMBER: US 60/295,798
7  PRIOR FILING DATE: 2001-06-06
8  PRIOR APPLICATION NUMBER: US 60/297,457
9  PRIOR FILING DATE: 2001-06-13
10 PRIOR APPLICATION NUMBER: US 60/298,884
11 PRIOR FILING DATE: 2001-06-19
12 PRIOR APPLICATION NUMBER: US 60/303,459
13 PRIOR FILING DATE: 2001-07-09
14 PRIOR APPLICATION NUMBER: US 60/331,273
15 PRIOR FILING DATE: 2001-11-13
16 Remaining Prior Application data removed - See File Wrapper or PALM.
17 NUMBER OF SEQ ID NOS: 4295
18 SOFTWARE: PatentIn Ver. 2.1
19 SEQ ID NO 4067
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21 LENGTH: 828
22 TYPE: DNA
23 ORGANISM: Rattus norvegicus
24 FEATURE:
25 OTHER INFORMATION: Genbank Accession No. S67316
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29 Best Local Similarity 100.0%; PId: No. 0.019;
30 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-767-701-13517
/ Sequence 13517, Application US/10767701
/ GENERAL INFORMATION:
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Gao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-21 (53535) B
/ CURRENT APPLICATION NUMBER: US/10/767,701
/ CURRENT FILING DATE: 2004-01-29
/ NUMBER OF SEQ ID NOS: 63126
/ SEQ ID NO 13517
/ LENGTH: 1330
/ TYPE: DNA
/ ORGANISM: Sorghum bicolor
/ FEATURE:
/ OTHER INFORMATION: Clone ID: SORBI-28MAU03-CLUS447_1
US-10-767-701-13517

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Query Match      63.1%; Score 32.2; DB 6; Length 1330;
Best Local Similarity 82.2%; Pred. No. 0.16;
Matches 37; Conservative 0; Mismatch 9.
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RESULT 4
PCT-US04-02188-20
: Sequence 20, Application PC/TUS0402188
: GENERAL INFORMATION:
: APPLICANT: Bayer Pharmaceuticals Corporation
: APPLICANT: Eveleigh, Deepa
: APPLICANT: Bigwood, Douglas
: APPLICANT: Taylor, Ian
: TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE
: FILE REFERENCE: 5151
: CURRENT APPLICATION NUMBER: PCT/US04/02188
: CURRENT FILING DATE: 2004-01-23
: PRIOR APPLICATION NUMBER: 60/442,582
: PRIOR FILING DATE: 2003-01-24
: NUMBER OF SEQ ID NOS: 191
: SOFTWARE: PatentIn version 3.2
: SEQ ID NO 20
: LENGTH: 3994
: TYPE: DNA
: ORGANISM: Homo sapiens
PCT-US04-02188-20

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Query Match	63.1%	Score 32.2;	DB 1;	Length 3994;
Best Local Similarity	82.2%;	Pred. NO. 0.18;		
Matches 37;	Conservative	0;	Mismatches 8;	Indels 0;
				Gaps 0

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||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 926 GAGAGGAAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAA 970
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RESULT 5
US-10-764-425-20
/ Sequence 20, Application US/10764425
/ GENERAL INFORMATION:
/ APPLICANT: Bayer Pharmaceuticals Corporation
/ APPLICANT: Eweleigh, Deepa
/ APPLICANT: Blywood, Douglas
/ APPLICANT: Taylor, Ian
/ TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE
/ FILE REFERENCE: 5151
/ CURRENT APPLICATION NUMBER: US/10/764,425
/ CURRENT FILING DATE: 2004-01-23
/ PRIOR APPLICATION NUMBER: 60/442,582
/ PRIOR FILING DATE: 2003-01-24
/ NUMBER OF SEQ ID NOS: 191
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 20
/ LENGTH: 3994
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-764-425-20

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Query Match	63.1%	Score 32.2;	DB 6;	Length 3994;
Best Local Similarity	82.2%	Pred. No. 0.18;		
Matches 37; Conservative	0;	Mismatches 8;	Indels 0;	Gaps 0

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Dd 926 GAGGAGGAAAGAAAGAACAGAGAAAGCGAGGAGAAAGAGCAAGAA 970
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RESULT 6
PCT-US03-32805-1
/ Sequence 1, Application PC/TUS0332805
/ GENERAL INFORMATION:
/ APPLICANT: decode genetics ehf.
/ APPLICANT: Helgadottir, Anna
/ APPLICANT: Gulcher, Jeffrey R.
/ APPLICANT: Manolescu, Andrei
/ TITLE OF INVENTION: Susceptibility Gene for Myocardial
/ TITLE OF INVENTION: Infarction
/ FILE REFERENCE: 2345.2048002
/ CURRENT APPLICATION NUMBER: PCT/US03/32805
/ CURRENT FILING DATE: 2003-10-16
/ PRIOR APPLICATION NUMBER: 60/419,432
/ PRIOR FILING DATE: 2002-10-17
/ NUMBER OF SEQ ID NOS: 535
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 398800
/ TYPE: DNA
/ ORGANISM: homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (70677)..(70776)
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (154988)..(155087)
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 248521
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (269591)..(270091)
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (272544)..(272643)

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OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1279545)...(1279644)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (300892)...(300991)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (327555)...(327654)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (333849)...(333948)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (341698)...(341698)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (345190)...(345289)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (350504)...(350603)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (391524)...(391623)
OTHER INFORMATION: n = A,T,C or G
FEATURE:
NAME/KEY: misc_feature
LOCATION: (396625)...(396724)
OTHER INFORMATION: n = A,T,C or G
CCT-USB3-32805-1

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Query March Similarity	63.1%	Score 32.2;	DB 1;	Length 398800;
Best Local Similarity	82.2%	Pred. No. 0.28;		
Matches 37; Conservative	0;	Mismatches	8;	Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGAGGAGGAGGAAGCTGTGAA 45
 Db 51865 GATGAGGAAGATGAAGAGGATGAGGAGGAGGAGGAAGTGAAGAA 51909

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RESULT 7
US-10-767-701-29063/c
/ Sequence 29063, Application US/10767701
/ GENERAL INFORMATION:
/
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/
/ FILE REFERENCE: 38-21(5335)B
/
/ CURRENT APPLICATION NUMBER: US/10/767,701
/
/ CURRENT FILING DATE: 2004-01-29
/
/ NUMBER OF SEQ ID NOS: 63128
/
/ SEQ ID NO 29063
/
/ LENGTH: 353
/
/ TYPE: DNA
/
/ ORGANISM: Sorghum bicolor
/
/ FEATURE:
/
/ OTHER INFORMATION: Clone ID: 8548511
/
/ US-10-767-701-29063

```

Query March Similarity 61.2%; Score 31.2; DB 6; Length 353;
Beet Local Similarity 81.8%; Pred. No. 0.27; 8; Indels 0; Gaps 0;
Matches 36; Conservative 0; Mismatch 0;

```

Oy      1  GAGGATTAACCTGAAGACGAGAGGACGAGGAGGAAGAGTGTGA 44
Db      257 GACCGTAAAGCGCAAGAGGAGCAGGATGAGGAGGAAGACCGCGA 214

RESULT 8
US-10-417-375A-125
; Sequence 125, Application US/10417375A
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 529452001600
; CURRENT APPLICATION NUMBER: US/10/417,375A
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 168053
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1) - (168053)
; OTHER INFORMATION: n = A,T,C or G
; US-10-417-375A-125

```

Query Match	61.24	Score 31.2	DB 6	Length 188053
Best Local Similarity	81.84	Pred. No. 0.5		
Matches 36	Conservative 0	Mismatches 8	Indels 0	Gaps 0

[illegible]

```

RESULT 9
US-10-767-471-10681/c
; Sequence 10681. Application US/10767471
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: RHEUMATOID ARTHRITIS, METHODS OF DETECTION
; FILE REFERENCE: CLO01505
; CURRENT APPLICATION NUMBER: US/10/767,471
; CURRENT FILING DATE: 2004-01-30
; NUMBER OF SEQ ID NOS: 50231
; SOFTWARE: FASTSEQ For Windows Version 4.0
; SEQ ID NO 10681
; LENGTH: 209320
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(209320)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-2)
; US-10-767-471-10681

```

[illegible]

RESULT10
US-10-767-701-26619/c
; Sequence 26619, Application US/10767701
; GENERAL INFORMATION:
; APPLICANT: KOVALIC, David K.
; APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
CURRENT FILING DATE: 2004-01-29
CURRENT APPLICATION NUMBER: US/10/767,701
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 26619
LENGTH: 650
TYPE: DNA
ORGANISM: Sorghum bicolor
FEATURE:
OTHER INFORMATION: Clone ID: 30976844
US-10-767-701-26619

Query Match
Best Local Similarity 60.8%; Score 31; DB 6; Length 650;
Matches 34; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGAGGAGAGGAGAGGAG 39
DB 88 GAAGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 50

RESULT 11
US-10-417-375A-79/c
Sequence 79, Application US/10417375A
GENERAL INFORMATION:
APPLICANT: David W. Morris
TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
FILE REFERENCE: 529452001600
CURRENT APPLICATION NUMBER: US/10/417,375A
CURRENT FILING DATE: 2003-04-15
NUMBER OF SEQ ID NOS: 176
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 79
LENGTH: 54303
TYPE: DNA
ORGANISM: Mus musculus
US-10-417-375A-79

Query Match
Best Local Similarity 60.8%; Score 31; DB 6; Length 54303;
Matches 34; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGAGGAGAGGAGAGGAG 39
DB 51400 GAGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 51362

RESULT 12
US-10-417-375A-1
Sequence 1, Application US/10417375A
GENERAL INFORMATION:
APPLICANT: David W. Morris
TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
FILE REFERENCE: 529452001600
CURRENT APPLICATION NUMBER: US/10/417,375A
CURRENT FILING DATE: 2003-04-15
NUMBER OF SEQ ID NOS: 176
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 310122
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(310122)
OTHER INFORMATION: n = A,T,C or G
US-10-417-375A-1

Query Match
Best Local Similarity 60.8%; Score 31; DB 6; Length 310122;
Matches 34; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGAGGAGAGGAGAGGAG 39
DB 256497 GAAGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 256535

RESULT 13
US-10-767-701-15708/c
Sequence 15708, Application US/10767701
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
CURRENT FILING DATE: 2004-01-29
CURRENT APPLICATION NUMBER: US/10/767,701
FILE REFERENCE: 38-21(53535)B
CURRENT FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 15708
LENGTH: 940
TYPE: DNA
ORGANISM: Sorghum bicolor
FEATURE:
OTHER INFORMATION: Clone ID: SORBI-28MAY03-CLUS1381_2
US-10-767-701-15708

Query Match
Best Local Similarity 60.0%; Score 30.6; DB 6; Length 940;
Matches 36; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGAGGAGAGGAGAGGAG 45
DB 699 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 655

RESULT 14
US-10-767-471-10555
Sequence 10555, Application US/10767471
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
FILE REFERENCE: CL001505
CURRENT APPLICATION NUMBER: US/10/767,471
CURRENT FILING DATE: 2004-01-30
NUMBER OF SEQ ID NOS: 50231
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10555
LENGTH: 34304
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(34304)
OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-;
US-10-767-471-10555

Query Match
Best Local Similarity 60.0%; Score 30.6; DB 6; Length 34304;
Matches 36; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAAGAGGAGAGGAGAGGAGAGGAG 45
DB 9950 GAAGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 9994

RESULT 15
US-10-642-946-6
Sequence 6, Application US/10642946

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 2, 2004, 05:30:03 ; Search time 2156 Seconds

(without alignments)
706.387 Million cell updates/sec

Title: US-09-692-077D-2_COPY_880_930

Perfect score: 51

Sequence: 1 gagagatgaagctgaagagga.....aggaagagctggaaccacag 51

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST:

1:	em_eecha:*
2:	em_eechum:*
3:	em_eecln:*
4:	em_eeclmu:*
5:	em_eeclov:*
6:	em_eeclpl:*
7:	em_eeclro:*
8:	em_hcc:*
9:	gb_eecl1:*
10:	gb_eecl2:*
11:	gb_hcc:*
12:	gb_eecl3:*
13:	gb_eecl4:*
14:	gb_eecl5:*
15:	em_eeclun:*
16:	em_eeclom:*
17:	em_gss_hum:*
18:	em_gss_huv:*
19:	em_gss_pln:*
20:	em_gss_vrt:*
21:	em_gss_fun:*
22:	em_gss_mam:*
23:	em_gss_mus:*
24:	em_gss_pro:*
25:	em_gss_tod:*
26:	em_gss_phg:*
27:	em_gss_vrl:*
28:	gb_gss1:*
29:	gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	41.6	81.6	1353	29	AY416856 Homo sapi
2	40	78.4	1044	13	B0880026 AGENCOURT
3	38.8	76.1	1347	29	AY416858 Mus muscu
4	38.2	74.9	872	29	ECMA2BAR AL606560 Horse alp

C	5	37.8	74.1	633	9	AL872808	AL872808
C	6	37.8	74.1	634	9	AL852740	AL852740
C	7	37	72.5	642	14	CF360731	CF360731
C	8	37	72.5	787	13	BU748295	BU748295
C	9	36.4	71.4	770	28	B2195097	B2195097
C	10	36.2	71.0	256	14	CA315228	CA315228
C	11	36	70.6	490	9	AA896321	AA896321
C	12	36	70.6	763	14	CB625989	CB625989
C	13	36	70.6	822	14	CB625990	CB625990
C	14	35.4	69.4	365	12	BM659898	BM659898
C	15	35.4	69.4	378	14	BQ294503	BQ294503
C	16	35.4	69.4	399	12	BI961415	BI961415
C	17	35.4	69.4	446	12	BI961033	BI961033
C	18	35.4	69.4	447	9	AL842491	AL842491
C	19	35.4	69.4	496	14	AM760336	AM760336
C	20	35.4	69.4	512	14	CB272922	CB272922
C	21	35.4	69.4	552	14	CF795982	CF795982
C	22	35.4	69.4	556	13	BM659429	BM659429
C	23	35.4	69.4	571	13	BK676418	BK676418
C	24	35.4	69.4	586	9	AI451753	AI451753
C	25	35.4	69.4	608	14	CF367914	CF367914
C	26	35.4	69.4	673	14	CF792336	CF792336
C	27	35.4	69.4	677	13	BY706040	BY706040
C	28	35.4	69.4	823	28	BZ504700	BZ504700
C	29	35.4	69.4	1080	11	AK005900	AK005900
C	30	35.4	69.4	1595	11	AK008242	AK008242
C	31	35	68.6	304	14	CA618111	CA618111
C	32	35	68.6	528	18	AZ993348	AZ993348
C	33	35	68.6	617	10	BF220068	BF220068
C	34	35	68.6	627	10	AM388194	AM388194
C	35	35	68.6	1009	29	CNS04V62	CNS04V62
C	36	34.8	68.2	464	9	AL791191	AL791191
C	37	34.8	68.2	648	9	AL652867	AL652867
C	38	34.8	68.2	649	9	AL848797	AL848797
C	39	34.8	68.2	861	13	BX736262	BX736262
C	40	34.8	68.2	891	13	BK694066	BK694066
C	41	34.8	68.2	895	13	BX771143	BX771143
C	42	34.8	68.2	899	9	AL970754	AL970754
C	43	34.6	67.8	354	14	CB961043	CB961043
C	44	34.6	67.8	411	14	CD565314	CD565314
C	45	34.6	67.8	516	14	CA567661	CA567661

ALIGNMENTS

RESULT 1	AY416856	1353 bp	DNA	linear	GSS 12-DEC-2003
LOCUS	AY416856				
DEFINITION	Homo sapiens HCM6030 gene, VIRUTAL TRANSCRIPT, partial sequence,				
ACCESSION	AY416856				
VERSION	AY416856.1 GI:39772816				
KEYWORDS	GSS.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Primates; Catarrhini; Homindae; Homo.				
REFERENCE	1 (bases 1 to 1353)				
AUTHORS	Clark, A.G., Gianowski, S., Nielson, R., Thomas, P., Kejaritwal, A.,				
	Todd, M.A., Tanendau, D.M., Civiello, D.R., Lu, F., Murphy, B.,				
	Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Shinsky, J.J.,				
	Adams, M.D. and Cargill, M.				
TITLE	Inferring nonneutral evolution from human-chimp-mouse orthologous				
	gene trios				
JOURNAL	Science 302 (5652), 1960-1963 (2003)				
PUBMED	14671302				
REFERENCE	2 (bases 1 to 1353)				
AUTHORS	Clark, A.G., Gianowski, S., Nielson, R., Thomas, P., Kejaritwal, A.,				
	Todd, M.A., Tanendau, D.M., Civiello, D.R., Lu, F., Murphy, B.,				
	Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Shinsky, J.J.,				
	Adams, M.D. and Cargill, M.				
TITLE	Direct Submission				

REFERENCE	2 (bases 1 to 872)
AUTHORS	Hunter,C.
TITLE	Direct Submision
JOURNAL	Submitted (14-Sep-2001) MRC Human Genome Mapping Project Resource Centre Hinxton, Cambridge, CB10 1SB. UK Email: bihelp@ngmp.mrc.ac.uk
FEATURES	Location/Qualifiers
SOURCE	1..872 /organism="Equus caballus" /mol_type="genomic DNA" /db_xref="taxon:9796"
ORIGIN	
Query Match	74.9%; Score 38.2; DB 29; Length 872;
Best Local Similarity	84.3%; Pred. No. 55;
Matches	43; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
Dn	592 GAGGATGAAGCTGAAGACGAGCAGAGCAGAGAAGAGTGTGAACCCAG 51
Qy	1 GAGGATGAAGCTGAAGACGAGCAGAGCAGAGAAGAGTGTGAACCCAG 51
RESULT 5	
AL872808/c	633 bp mRNA linear EST 03-DEC-2003
LOCUS	AL872808 XGC-egg Silurana tropicalis cDNA clone Tggs106k18 5', mRNA sequence.
DEFINITION	AL872808 AL872808.2 GI:38666205
ACCESSION	EST.
VERSION	Silurana tropicalis (western clawed frog)
KEYWORDS	Silurana tropicalis
SOURCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae; Xenopodinae; Silurana. 1 (bases 1 to 633) Croening,M.D.R., Ashurst,J.L., Taylor,R., Zorn,A.M. and Rogers,J. Sanger Xenopus tropicalis EST project 2001 (11_2003) Unpublished (2003) On Sep 15, 2002 this sequence version replaced gi:22893073. Contact: Taylor R
ORGANISM	Sanger Institute Hinxton, Cambridgeshire, CB10 1SA, UK Email: trop@sanger.ac.uk Sanger Xenopus tropicalis EST project 2001 TROPICALIS_SEQUENCE_ID: Tggs106k18.pkx86 Sequencing primer: SP6 This sequence is from a Xenopus Gene Collection (XGC) library constructed by Aaron M. Zorn. cDNA was oligo dt primed from 5ug of poly A+ RNA from egg. ECORI-NciI cut cDNA was then ligated into pCS107 with EcoRI at the 5' end and NciI at the 3' end. Vector: pCS107; Site_1: EcoRI; Site_2: NciI Host: Escherichia coli XL1-blue. Location/Qualifiers
REFERENCE	
TITLE	
JOURNAL	
COMMENT	
FEATURES	
SOURCE	1..633 /organism="Silurana tropicalis" /mol_type="mRNA" /db_xref="taxon:9364" /clone="Tggs106k18" /dev stage="egg" /lab_host="Escherichia coli XL1-blue" /note="vector: pCS107; Site_1: EcoRI; Site_2: NciI; cDNA was oligo dt primed from 5ug of poly A+ RNA from egg. ECORI-NciI cut cDNA was then ligated into pCS107 with EcoRI at the 5' end and NciI at the 3' end"
ORIGIN	
Query Match	74.1%; Score 37.8; DB 9; Length 633;
Best Local Similarity	85.7%; Pred. No. 64;
Matches	42; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Oy	1	GAGATTAAGCTGAAGAGGAGAGGAGAGGAGAGGAGTGTGAACCCC	49
Dd	559	GTGGATGAAGATTGAAGAGAAGATGAGAGAGTGATGTGAACCAC	511
RESULT 6			
AL852740/c			
LOCUS			
DEFINITION	AL852740 XGC-egg Silurana tropicalis cDNA clone TEG915d14 5', mRNA sequence.	634 bp	mRNA linear EST 26-NOV-2003
ACCESSION	AL852740		
VERSION	AL852740.2	GI:38563553	
KEYWORDS	EST.		
SOURCE	Silurana tropicalis (western clawed frog)		
ORGANISM	Silurana tropicalis Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae; Xenopodinae; Silurana. 1 (bases 1 to 634)		
REFERENCE	Croning,M.D.R., Ashurst,J.L., Taylor,R., Zorn,A.M. and Rogers,J. Sanger Xenopus tropicalis EST project 2001 (11_2003) Unpublished (2003) On Sep 15, 2002 this sequence version replaced gi:22872961. Contact: Taylor R Sanger Institute Hinxton, Cambridgeshire, CB10 1SA, UK Email: trop@sanger.ac.uk Sanger Xenopus tropicalis EST project 2001 TROPICALIS SEQUENCE ID: TEG915d14.plksp6 Sequencing primer: SP6 This sequence is from a Xenopus Gene Collection (XGC) library constructed by Aaron M. Zorn. cDNA was oligo dt primed from 5ug of poly A+ RNA from egg. ECORI-NciI cut cDNA was then ligated into pCS107 with EcoRI at the 5' end and NciI at the 3' end. Vector: pCS107; Site 1: EcoRI; Site 2: NciI Host: Escherichia coli XL1-blue. Location/Qualifiers 1..634 /organism="Silurana tropicalis" /mol_type="mRNA" /db_xref="taxon:8364" /clone="TEG915d14" /dev_stage="egg" /lab_host="Escherichia coli XL1-blue" /clone_lib="XGC-egg" /notes="Vector: pCS107; Site 1: EcoRI; Site 2: NciI; cDNA was oligo dt primed from 5ug of poly A+ RNA from egg. EcoRI-NciI cut cDNA was then ligated into pCS107 with EcoRI at the 5' end and NciI at the 3' end"		
FEATURES			
source			
Query Match	74.1%; Score 37.8;	DB 9;	Length 634;
Best Local Similarity	85.7%; Pred. No. 64;		
Matches	42; Conservative 0;	Mismatches 7;	Indels 0;
Gaps	0;		
Oy	1	GAGGTAAAGCTGAAGAGGAGAGGAGAGGAGAGGAGTGTGAACCCC	49
Dd	204	GTGGATGAAGATTGAAGAGAAGATGAGAGAGTGATGTGAACCAC	156
RESULT 7			
CF360731/c			
LOCUS	CF360731 MARC 3P1G Sus scrofa cDNA 3', mRNA sequence.	642 bp	mRNA linear EST 25-AUG-2003
ACCESSION	CF360731		
VERSION	CF360731.1	GI:34158729	
KEYWORDS	EST.		
SOURCE	Sus scrofa (pig)		
ORGANISM	Eukaryotes; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suidae; Suidae; Sus. 1 (bases 1 to 642)		

AUTHORS Smith, T.P.L., Freking, B.A., Ford, J.J., Vallet, J.L., Fox, J.,
Wise, T.A., Nommenn, D.J., Wray, J.E. and Keele, J.W.
TITLE A second set of porcine ESTs from a pooled-tissue normalized
library
JOURNAL Unpublished (2003)
COMMENT Contact: Smith TPL

ORIGIN

Query Match	72.5%;	Score 37;	DB 14;	Length 642;
Best Local Similarity	88.9%;	Pred. No. 96;		
Matches	40;	Conservative	0;	Mismatches 5;
				Indels 0;
				Gaps 0;

QY 1 GAGGATGAAGCTGAAGAAGGAGGAGGAGGAGAAGTGTGAA 45
 |||||
Dd 377 GAGGAGGAAGATGAAGAAGGAGGAGGAGAAGAGAAGACAGACTGAA 333
 |||||

RESULT 8	BU748295	787 bp	mRNA	linear	EST 10-OCT-2002
LOCUS	BU748295				
DEFINITION	BU748295				
CH3#019_B01T7	Canine heart normalized cDNA library in pBluescript				
ACCESSION	BU748295				
VERSION	BU748295				
KEYWORDS	GI:23700479				
SOURCE	EST				
ORGANISM	Canis familiaris (dog)				
	Canis familiaris				
	Canis familiaris				

FEATURES
SOURCE

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/organism="Canis familiaris"  
/mol_type="mRNA"  
/db_xref="taxon:9615"  
/clone="CH3#019_B01"
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/tissue_type="heart"
/cell_type="heart"
/dev_stage="mixed developmental stages (adult, 30 day - 40
day fetal)"
/clone_idb="Canine heart normalized cDNA library in
pBluescript"
/note="Organ: heart, Vector: pBluescript, Site_1: 5' of
vector NotI, Site_2: 3' of vector EcoRI, Tissue source:
dog heart (adult, 30 day - 40 day fetal), right and left
atria and ventricle, dog breed - mixed (beagle, German
shepherd, pointer, Irish setter). Library construction:
oligo-dT primed"

```

ORIGIN

Query Match	72.5%	Score 37;	DB 13;	Length 787;
Best Local Similarity	88.9%;	Pred. No. 99;		
Matches 40;	Conservative 0;	Mismatches 5;	Indels 0;	Gaps 0

Dy 1 GAGATGAAGCTGAAAGAGAGAGAGAGAGAGAAGTGTCAA 45
|||
Dd 41 GATGAAGAAGCAGAAAGAGAGAGAGAGAGAGAGAGAGATGAA 85

RESULT 9	B2195097/c	B2195097	770 bp	DNA	linear	GSS 11-OCT-2002
LOCUS						
DEFINITION		CH220-248P14.TV CHORI-230 Segment 2				Rattus norvegicus genomic clone
		CH220-248P14, genomic survey sequence.				
ACCESSION		B2195097				

ORGANISM	Rattus norvegicus (Norway rat)
SOURCE	Rattus norvegicus
KEYWORDS	GSS.
VERSION	BZ195097.1 GI:23853149
ACCESSION	BZ195097

REFERENCE AUTHORS

TITLE	Rat BAC End Sequences from Library CHORI-230 MboI segment
JOURNAL	Unpublished (1999)
COMMENT	Other_GSSs: CH230-248P14.TJ

FEATURES
source

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/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/strain="BN/SMHd/MCw"
/db_xref="taxon:10115"
/clone="CH230-248p14"
/sex="Female"
/cell_type="Brain"
/clone_id="CHOR1.230 Segment 2"
/notes="vector: pTRABACT.3; Site_1: Mbol; Site_2: Mbol;
CHOR1-230 Rat (BN/SMHd/MCw) BAC library produced by
Pleier de Jong"

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ORIGIN

QY 1 GAGGATGAAGCTGAGAGGAGGAGGAGGAGGAGAGTGTGAA 45
 |||||
 DB 149 GAGGAGGAGAGTGAAGAGGAGGAGGAGGAGGAGGAGAGTGTGAA 105

RESULT 15

BQ294503

LOCUS BQ294503 378 bp mRNA linear EST 15-MAY-2002

DEFINITION Pa002 Periplaneta americana Lambda Express library Periplaneta americana cDNA clone 5, mRNA sequence.

ACCESSION BQ294503

VERSION BQ294503.1 GI:20803437

KEYWORDS EST

SOURCE Periplaneta americana (American cockroach)

ORGANISM

Periplaneta americana
 Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattelloidea;
 Blattidae; Periplaneta.

1 (bases 1 to 378)

Zhou, Z.W., Liu, Z.G. and Gao, B.

The construction of Periplaneta americana nymph cDNA library and
 IgG4 immunology screen
 Unpublished (2002)

JOURNAL

COMMENT

Immunology Department

Jiang Xi Medical College

106, Bayi Street, Nanchang, Jiangxi, P.R.C.

Tel: 86-0791-6363001

Email: Zhouzhenwen28@hotmail.com.

Location/Qualifiers

FEATURES

source

1..378

/organism="Periplaneta americana"

/mol_type="mRNA"

/db_xref="taxon:6978"

/clone="5"

/tissue_type="whole body"

/dev_stage="nymph"

/lab_host="E.coli NM522"

/clone_lib="Periplaneta americana lambda Express library"

/note="Vector: lambda Excell; These sequences were
 screened by cockroach sensitive patients' IgG4 serum "

ORIGIN

Query Match 69.4%; Score 35.4; DB 13; Length 378;

Best Local Similarity 86.7%; Pred. No. 2e+02;

Matches 39; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GAGGATGAAGCTGAGAGGAGGAGGAGGAGGAGGAGAGTGTGAA 45
 |||||

DB 159 GAGGAGGAGAGTGAAGAGGAGGAGGAGGAGGAGGAGAGAGAGAA 203

Search completed: March 2, 2004, 08:34:35
 Job time : 2156 secs

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